














Energy-efficient, comfortable, versatile
Catalogue 2019





**Always there for you:
+49 7474 692-369**

Theben stands for the highest quality. Rigorous final testing of our products guarantees it. In addition, we are happy to be there for you: online, over the phone and, of course, in person.

	New products & LED expertise	
Time and light control	Digital time switches	18:00
	Analogue time switches	
	Time relays/hour counters	1234h
	Staircase time switches/dimmers	
	Twilight switches	
Presence and motion detectors	Presence detectors	
	Motion detectors/spotlights	
Climate control	Clock thermostats	
	Room thermostats	
	Sensor technology	
House and building control	KNX	
	Smart Home system LUXORliving/ Living comfort control LUXOR	
	Logic controllers	
Accessories/appendix	Accessories, Index, Packaging units, List of discontinued models, Brochures, Terms and conditions, Agencies	



Dear customers and partners,

Behind every one of our solution is the idea of using energy only when it is really needed: be it in automatic lighting control with presence and motion detectors, in lighting control with dimmers and staircase time switches, or in climate control with KNX actuators, CO₂ Sensors and room thermostats. We call this energy saving comfort.

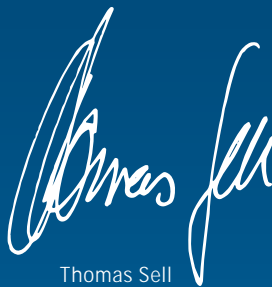
Many of our product novelties start right here: for example, the new theLeda D LED lights with integrated motion detector for outdoor use. These impress with their outstanding design (aluminum housing), networkability (via radio) and convenient operation (via remote control). Or the new KNX high-performance actuators with high switching loads. In addition, we present you next to a variety new flush-mounted actuators for our smart home system LUXORliving and KNX home and building automation also new tamper-proof clock thermostats RAMSES BLE. Look forward to these and many more innovative products in our catalog.

In short: With Theben you make sure that darkness and cold in and around the house have no chance. Certainly!

We are looking forward to a continued good cooperation.
Your Thebes board with the whole team



Paul Sebastian Schwenk
Management board



Thomas Sell
Management board

The smart solution LUXORliving flush-mounted actuators

The new flush-mounted actuators extend the LUXORliving smart home system to include a convenient solution enabling easy installation in switch and junction boxes. With power being supplied by a bus voltage, an additional power supply is not necessary.

Informations on page 308.

Highlights

Simple start-up

Two binary inputs per device and power supply via bus voltage.
No need for time-consuming and costly wiring in the control cabinet.

LUXORliving D1 dimming actuator

For a dimming action with adjustable dimming curve to produce flicker-free dimming.

LUXORliving J1 blind actuator

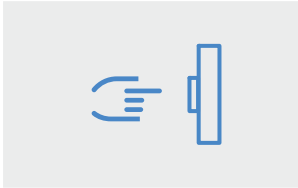
For a blind with integrated ventilation function where the blind automatically switches to the ventilation position as soon as a window is tilted.

LUXORliving S1 switching actuator

With one channel and two outputs as well as with NC or NO contact (alternating operation), meaning there is no need for a changeover switch.



Simple start-up



LUXORliving J1 blind actuator



LUXORliving D1 dimming actuator



LUXORliving S1 switching actuator



Lighting efficiency with the „wow“ factor



The new theLeda D LED lights with motion detector for automatic, energy-efficient lighting control enable customised lighting design or accent lighting on house facades, in hotel and parking facilities, or in retirement homes, to name but a few examples.

Informations on page 178.

Highlights

- **Attractive design**
With a solid aluminium housing.
- **Diverse range of device variants**
Models with different light emissions and a range of light outputs for any application.
- **Wireless connectivity**
After detecting motion, the lighting switches on automatically at all connected detectors.

Wall lights*



theLeda D S

LED spot-light
8,5 W



theLeda D SU

LED spot-light/up-light
14 W



theLeda D U

LED up-light
8,5 W



theLeda D UD

LED up-light/down-light
11,5 W

* Available with and without motion detector



Bollard lights*



theLeda D B

LED bollard light, 40 cm
8,5 W



theLeda D B plus S

LED bollard light, 72 cm
8,5 W with socket



theLeda D B plus

LED bollard light, 72 cm
8,5 W

Flexible application: LED-spotlight theLeda B

Theben presents theLeda B: a flat, modular LED spotlight with optional motion detector or light sensor. This LED spotlight with driverless high power LED technology delivers motion or daylight-dependent lighting control and is ideal for use on business premises in areas such as loading bays and ramps or entrances.

Informations on page 160.

Under the toughest conditions LED-spotlight theLeda EC

The new theLeda EC LED spotlights with motion detector from Theben offer a high-performance, energy-efficient solution – including for coastal areas. The robust design with polycarbonate housing, stainless-steel mounting brackets and screws, aluminium cooling elements that are resistant to sea water, as well as fully coated electronics and protection class IP 55 ensure reliable operation in the harshest environmental conditions. Thanks to the large 180° detection angle with a 12 m range, side and rear entrances, driveways and parking spaces can be safely, reliably and quickly illuminated.

Informations on page 162.



LED-spotlight



Switch



LED-spotlight



LED-spotlight



Light sensor



LED-spotlight with light sensor



LED-spotlight



Motion detector



LED-spotlight with motion detector



A shining beacon in lighting control



Theben presents the new LUNA 126 star E twilight switch. Complete with an integrated light sensor, the device replaces the previous LUNA 126 twilight sensor model. The LUNA 126 star E is manufactured without the use of cadmium sulfide (CdS) and therefore meets the requirements of the Directive RoHS 2001/65/EU.

Informations on page 96.

Highlights

- Integrated light sensor
- Fixed on/off switching delay: Preventing faulty operation caused by lightning, car headlights, etc.
- Freely adjustable brightness: That can be modified externally without opening up the device
- Quick to instal: Thanks to the flexible cable feed from behind and below, cover with locking function when opening and large terminal area
- New mast bracket: (Optional) for flexible and secure installation

The new analogue twilight switch LUNA 108 plus

Theben presents the new analogue twilight switches LUNA 108 plus AL and 108 plus EL for lighting control based on daylight. Complete with an external light sensor, the device replaces the previous LUNA 108 and 109 twilight sensor models. The LUNA 108 AL and 108 EL are manufactured without the use of cadmium sulfide (CdS) and therefore meet the requirements of the Directive RoHS 2001/65/EU.

Informations on page 90.



Highlights

- Comes with an external light sensor
- Fixed on/off switching delay, preventing faulty operation caused by lightning, car headlights, etc.
- Display of channel and switching status
- Freely adjustable switching brightness
- Easy installation using an optional wall mounting set
- Wider light adjustment range from 2 to 2000 lux

Compact housing ideal for LEDs

The DIMAX universal dimmer boasts not only a highly compact housing for installation in flush-mounted boxes, but also smooth and linear dimming of LED lamps.

Informations on page 86.



Highlights

- Easy installation: With a highly compact housing
- Ideal for LEDs: DIMAX 542 plus S – using potentiometers, a minimum brightness can be set for LED lamps with low wattages. Even the type of control, i.e. leading- or trailing-edge phase angle control, can be preselected. This practically allows all dimmable LED lamps of renowned manufacturers to be controlled reliably.
- Energy-efficient lighting control: Both dimmers are ideally suited to all new, dimmable LEDs and halogen lamps.
- Handy memory function: This saves the most recently set light level value and then dims to this value the next time it is switched on.
- Automatic load recognition for R, L and C loads and LEDs: Permits not only the use of different lights, but also the connection of different consumers such as fans in wet rooms.





Ideal for LEDs



Handy memory function



Easy installation



Convenient snooze function



Automatic load recognition



Flexible settings



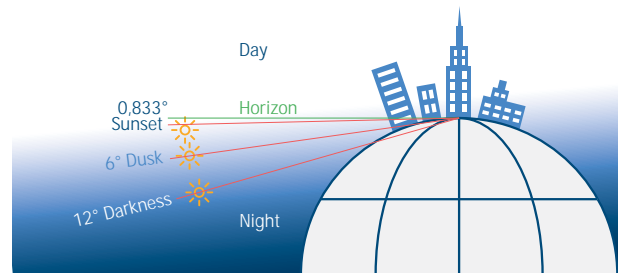
Advanced features

Selected top3 devices

Astronomical time switches can be used for precise switching of connected consumers based on sunrise and sunset. This makes lighting control a breeze while also lowering your energy usage. So it's good for the environment and your wallet.

SELEKTA 171 top3 RC and SELEKTA 172 top3 also feature an astro cycle which is useful for controlling roller blinds and shutters.

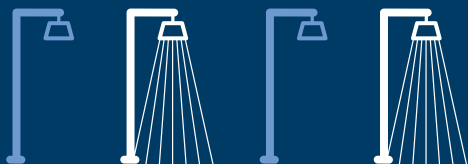
Informations on page 34.



What's more, the new astro time switches for the first time feature a three-stage twilight range:

- Sunset (civil twilight)
- Twilight (nautical twilight)
- Darkness (astronomical twilight)





Practical, reliable and low-maintenance: Channel switching and locking

The new dual-channel TR 622 top3 and SELEKTA 172 top3 devices now offer a channel switching and locking feature. The channel switching option allows you to activate basic lighting while at the same time saving energy. For example, this can ensure even loads for street lighting elements, while reducing maintenance intervals and downtimes. The channel locking feature prevents a channel from using conflicting commands which could damage connected devices (e.g. forward and return for motors).



Spontaneous, annual, cyclical: A wide range of additional programs

The new TR 611 top3, TR 611 top3 RC and TR 622 top3 devices feature a small annual program and make it possible to program one-off and recurring events (e.g. pre-programmed holidays which you need only select).

In addition, the devices have a cycle and a pulse program.



Learn more from our videos at www.youtube.com/TheThebenAG

Handle high loads safely and reliably

Theben is extending their range of actuators to include two new KNX high-performance actuators for high switching loads.

RM 4 H KNX with 4 channels and RM 8 H KNX with 8 channels.

- For high switching loads: 25 A switching capacity per channel via bistable relays
- For large cross-sections: Connectors for wire cross-sections of up to 6 mm²
- Easy commissioning: Power supply via bus voltage
- Two device variants: KNX high-performance actuators with four or eight channels

Informations on page 236.



The smart flush-mounted solution

Theben AG is extending the convenient LUXORliving smart home system to include compact, flush-mounted actuators. \With power being supplied by a bus voltage, an additional power supply is not necessary.

Easy commissioning: Two binary inputs per device and power supply via bus voltage.

LUXORliving D1 dimming actuator: A dimming output for dimming incandescent, halogen and dimmable LED lamps. With automatic load detection and an adjustable dimming curve for flicker-free and smooth dimming.

LUXORliving J1 blind actuator: For controlling blinds, awnings and roller blinds.



LUXORliving S1 switching actuator: With one channel and two outputs as NC or NO contact (alternating operation), serving as a replacement for a changeover switch while retrofitting, for example. Informations on page 252.

Simply smart heating control

The new RAMSES BLE clock thermostats from Theben combine the advantages of conventional clock thermostats with highly convenient app-based programming options and maximum protection against tampering.

Informations on page 200.

Highlights

- Simple, app-based operation: Intuitive programming without the need for prior experience and device monitoring on a high-resolution smartphone display.
- Greater reliability compared to smart thermostats: Maximum protection against tampering and optimum data protection thanks to the localBluetooth Low Energy connection, no Internet connection with cloud data storage, remote access and geofencing.
- Clock thermostats for any application: Available as OpenTherm devices, 2-wire on/off devices and flush-mounted devices
- Easy installation: Rapid installation without the need for additional components such as gateways and switching actuators.
- Handy comfort functions: An adjustable optimiser enables the set temperature to be reached at the switching time, while the wall adjustment feature ensures the adaptation of the room temperature measurement to interior and exterior walls.
- External input: For the flexible connection of the external temperature sensor, floor sensor, motion detector or telephone contact.





 **Bluetooth®**





LEDs – Energy savers with a bright future and little quirks

LEDs have progressed enormously in recent years. Thanks to the improvements in the degree of efficiency and colour rendering index, there is almost no area of lighting technology where they are not present: as retrofit versions, they are a welcome alternative to unpopular energy-saving lamps. As illuminated strips and surfaces, they snuggle against every surface and thus allow completely new possibilities for light design. Even the first high-performance devices, such as stage and studio spotlights, are already available as LED versions.

However, not every bulb can easily be replaced by an LED retrofit lamp. This may lead to significant faults in the installation – surprisingly even with simple switching. The reason for this are the short but extremely high inrush currents. They can be a thousand times and more than the rated output. Contacts could burn through or fuse as a result.

The challenge for LEDs and how to deal with it



The difficulties with such everyday tasks such as switching or dimming are surprising. The problem is that there are no uniform standards, especially for LED lamps yet.

The general guidelines for lamps apply to LED lamps, from the version of the socket to the measurement setup for the luminous intensity. However, whatever happens in-between is not recorded. As opposed to a classic lamp with simple spiral-wound filament, LED lamps include a lot of electronics for control purposes. Every manufacturer can decide the layout of these themselves. The manufacturer of switching and dimming devices currently does not have any reference points as to which electronics it controls and as to how the lamp behaves. The respective standards currently only exist as a draft.

No standards available? Then we will test it ourselves!

If special switching loads for LED lamps and discharge lamps are not specified on a product, one can assume that the product has not been approved for these. However, the specifications for LED loads are not always helpful. Which inrush currents does the device manufacturer assume? These may differ from lamp to lamp. You should also be careful when adding. Several LEDs with low rated output may have higher inrush currents when added together than one single LED with the respective total output.

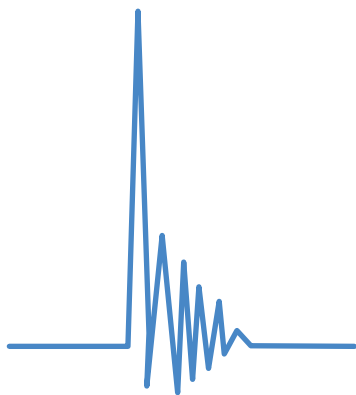
In order to be able to specify the load specifications for switching devices and dimmers, Theben conducts ongoing measurements on all conventional retrofit lamps. During these tests, the switching devices run through at least 40,000 switching cycles. This allows us to make reliable statements for the switchable loads.

Contact killer LED

Low consumption in use, wasteful when switched on

A simple scenario: In the staircases of a large residential building, the building management replaces the light bulbs with LED retrofit lamps. A specialist measures and verifies the prescribed brightness. The potential for savings is promising: in addition to the more favourable energy consumption, the long service life should reduce maintenance costs.

But suddenly the staircase light timer switches fail. An examination shows scorched or fused contacts: the devices were obviously overloaded, although the rated output of the installation was reduced significantly.

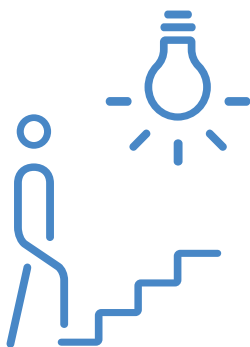


Hard work for the contacts

Capacitive switching loads

How can an LED lamp that only has a few watts of rated output destroy a switching contact that has been dimensioned for several times that? Upon closer inspection, the answer is found in the inrush currents: in light bulbs, the typical inrush currents of the cold spiral coil cause ten times the respective rated current. In LED lamps and energy-saving lamps with their capacitive characteristics, one finds inrush current pulses in the μs range that could be a 1000 times and more than the rated current.

A measurement in our test laboratory authorised by the VDE has shown that in a particularly unfavourable case, an inrush current of 19 A with a 1.8 W LED lamp is 1706 times the rated output!



Watch your step!

Switch-off pre-warning

At this point, we also wish to draw attention to problems with the switch-off pre-warning (flashing twice or similar according to DIN 18015-2): the flashing is not reliably visible, as the switching-off process is buffered by the electronic ballasts or capacitors of the LEDs. Switching several times additionally impairs the service life of the device.

This is how LED lamps are switched

With the right contact at the right time



10 A-10 AX
230 V~

Two contacts for all switching cases: Tungsten pre-contact

High currents require special contacts. Alongside silver tin oxide (AgSnO_2), Theben uses a combination of two contacts closing one after the other: tungsten pre-contacts. The leading contact consists of high-resistance and very durable tungsten.

It captures the inrush current and limits it at the same time. As a result, the low-resistance main contact remains unloaded from the switching peaks.

Theben uses these relays in the digital time switches TR 609 top2 S and SELEKTA 175 top2 as well as with the performance motion detectors theLuxa P and the presence detector theRonda P.



Switching at precisely the right time: Zero-cross switching

Switching devices that are designed for the C-load generally deal with the inrush currents in a better manner. Theben uses a particularly efficient solution, known as zero-cross switching. It calculates the zero-crossing of the sine curve of the alternating voltage. At this moment, the inrush current is at its minimum during switching. This protects the relay contact and extends its service life, even at nominally high switching loads. Almost all of the devices of the top2 series are equipped with the motion detector theLuxa S and the presence detector PlanoCentro.



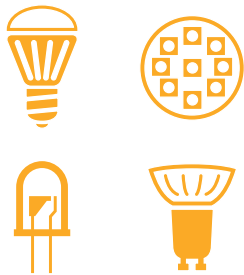
Environmentally aware and safe switching: Cadmium-free contacts

Cadmium oxide was thought to have been the ideal contact material for high inrush currents. However, it is now forbidden according to the RoHS guidelines, although there are exceptions for electrical switching contacts. Nevertheless, Theben had switched to environmentally friendly AgSnO_2 materials at the turn of the millennium.

These offer comparably good, in some cases even better contact and switching properties, such as higher burn-off resistance, increased resistance against electric wear and a significantly reduced tendency for material migration during direct current operation.

Dimming LEDs?

Not something that should be taken for granted!



Dimmable or not? Making the right choice is crucial

Not every LED lamp is dimmable. Even with suitable versions, the dimming characteristics differ significantly and depending on the manufacturer. LEDs frequently flicker and cannot be dimmed linearly and harmonically, as the required electronic ballasts react with great differences to the leading and trailing edge. This is why some manufacturers only explicitly allow one of the methods.



Unwanted continuous light Residual currents are sufficient

Another problem is caused by the interference suppression capacitors of the dimmer. Very low residual currents continuously run through them. These are sufficient to supply LED lamps with one to two watts of rated output. They therefore never go out completely.

A similar effect can be caused by long lines positioned in parallel.



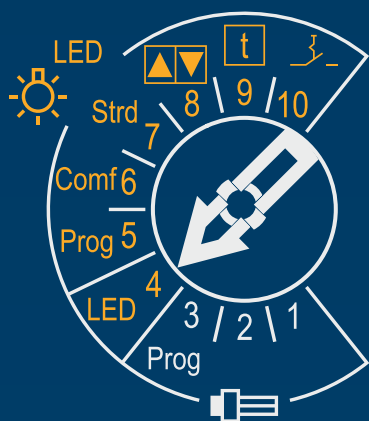
Dimmer meets lamp Not all of them are compatible

For infinitely variable control, not only does the LED lamp have to be dimmable, but the dimmer also has to be LED-compatible. Theben has developed several solutions for this purpose:

- Presets for different LED lamps
- Dimming curves that can be reloaded via ETS

Dimming LEDs!

Theben can

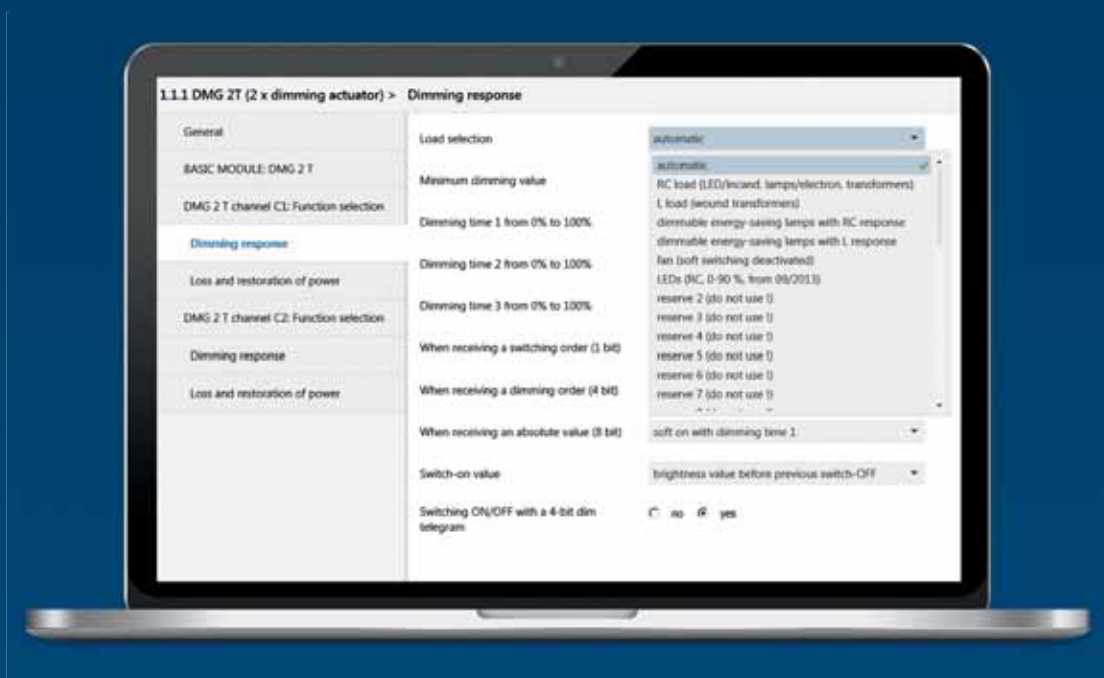


A matter of settings

Selecting presets

LED-compatible switching devices from Theben, such as the universal dimmer DIMAX 534 plus, offer additional setting options for a perfect adaptation to this technology.

A minimum brightness for LED lamps with low wattage can be set using potentiometers and rotary switches. Even the type of control, phase angle or trailing-edge phase control can be preselected. This practically allows all dimmable LED lamps of renowned manufacturers to be controlled reliably.












Up to date with KNX

Reloading dimming curves

The KNX universal dimmer actuator from Theben goes one step further: the ETS programming software stores various dimming curves, which correct the dimming response appropriately depending on the lamp used, thus ensuring seamless, infinitely variable dimming.

Another advantage of the new dimming actuators is the ability to extend the dimming curves. New dimming curves — e.g. for future lamps — can be imported via ETS. With this update capability, KNX dimming actuators ensure your investments are well-protected.



	Program	Number of channels	Memory locations	External inputs	PC Interface	Memory card supplied	Type of connection	Type	Page
DIN rail, 2 modules									
	Weekly program	1	56	–	✓	–	DuoFix spring terminals	TR 610 top3	30
		2	56	–	✓	–	DuoFix spring terminals	TR 612 top3	30
		1	84	1	✓	–	DuoFix spring terminals	TR 611 top3 TR 611 top3 RC	32 32
		2	84	2	✓	–	DuoFix spring terminals	TR 622 top3	32
	Weekly program, astronomical program	1	56	–	✓	–	DuoFix spring terminals	SELEKTA 170 top3	34
		2	56	–	✓	–	DuoFix spring terminals	SELEKTA 174 top3	34
		1	84	1	✓	–	DuoFix spring terminals	SELEKTA 171 top2 RC	34
		2	84	2	✓	–	DuoFix spring terminals	SELEKTA 172 top3	34
DIN rail, 3 modules									
	Yearly program, astronomical program	1	800	1	✓	–	DuoFix spring terminals	TR 641 top2	36
						✓	DuoFix spring terminals	TR 641 top2 RC	36
		2	800	2	✓	–	DuoFix spring terminals	TR 642 top2	36
						✓	DuoFix spring terminals	TR 642 top2 RC	36
–	–	–	–	–	–	DuoFix spring terminals	EM LAN top2	38	
DIN rail, 4 modules									
	Yearly program, astronomical program	4	800	4	✓	–	DuoFix spring terminals	TR 644 top2	36
						✓	DuoFix spring terminals	TR 644 top2 RC	36
	–	4	–	4	–	–	DuoFix spring terminals	EM 4 top2	38
DIN rail, 1 module									
	Weekly program	1	56	–	✓	–	DuoFix spring terminals	TR 608 top2 S	40
			84	1	✓	–	DuoFix spring terminals	TR 609 top2 S	40
	Weekly program, astronomical program	1	56	1	✓	–	DuoFix spring terminals	SELEKTA 175 top2	40
Front panel installation/wall installation									
	Weekly program	1	84	–	✓	–	Screw terminals	TR 635 top2	42
		2	84	–	✓	–	Screw terminals	TR 636 top2	42
Wall installation									
	Weekly program	1	56	–	–	–	–	TR 684-1 top2	44
Flush-mounted wall installation									
	Weekly program	2	–	–	–	–	Screw terminals	theRolla P032	46
								theRolla S031	46
Plug-in									
	Weekly program	1	36	–	–	–	Plug-in	theben-eltimo 020 S	48
			33	–	–	–	Plug-in	theben-eltimo 020 S DCF	48

Time and light control

Digital time switches, DIN rail, 2 modules

2



TR 610 top3

TR 612 top3

TR 612 top2

Description

Common functions

- Digital time switch with weekly program
- DuoFix spring terminals
- Text-oriented user guidance in display
- 56 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- ON-OFF switching times
- Switching preselection
- Permanent switching ON/OFF
- Integrated operating hour counter

- Holiday program
- Display back light (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

TR 610 top3

- 1 channel
- Programming by app possible
- Safe transfer via optional Bluetooth Low Energy OBELISK top3
- Maximum manipulation security, time switch programs can only be transferred from the app to the time switch when the Bluetooth OBELISK top3 is plugged into the time switch
- 100 % compatible with top2

TR 612 top3

- 2 channels
- Programming by app possible
- Safe transfer via optional Bluetooth Low Energy OBELISK top3
- Maximum manipulation security, time switch programs can only be transferred from the app to the time switch when the Bluetooth OBELISK top3 is plugged into the time switch
- 100 % compatible with top2

TR 610 top2

- 1 channel

TR 612 top2

- 2 channels

Product selection

Program	Program functions	Number of channels	Switching load < 1 mA	Operating voltage	Type	Article number
Weekly program	ON-OFF	1	-	230 V AC	TR 610 top3	6100130
		2	-	230 V AC	TR 612 top3	6120130
		1	-	230-240 V AC	TR 610 top2	6100100
			✓	230-240 V AC	TR 610 top2 G	6100110
			-	12-24 V UC	TR 610 top2 24V	6104100
		2	-	230-240 V AC	TR 612 top2	6120100
-	12-24 V UC		TR 612 top2 24V	6124100		

Technical data

	TR 610 top3	TR 612 top3	TR 610 top2 G	TR 610 top2 24V	TR 612 top2 24V
Operating voltage	230 V AC		230–240 V AC	12–24 V UC	12–24 V UC
Frequency	50–60 Hz				
Width	2 modules				
Installation type	DIN rail				
Type of contact	Changeover contact	Two-way changeover contact	Changeover contact		Two-way changeover contact
Power reserve	10 years				
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A				
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A		2 A		
Incandescent/halogen lamp load	2600 W		1400 W		
Energy saving lamps	1100 W		30 W		
LED lamp < 2 W	50 W		6 W		
LED lamp 2-8 W	600 W		20 W		
LED lamp > 8 W	600 W		25 W		
Switching capacity min.	ca. 10 mA		< 1 mA	ca. 10 mA	
Shortest switching times	1 min				
Time accuracy at 25 °C	typical $\pm 0,25$ s/day (quartz)				
Stand-by consumption	0,4 W		0,8 W	0,3 W	
Test approval	–				
Type of protection	IP 20				
Protection class	II according to EN 60 730-1				
Ambient temperature	–30 °C ... +60 °C		–30 °C ... +55 °C		

Accessories

Front panel kit

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Wall mounting kit 35 mm

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Bluetooth OBELISK top3

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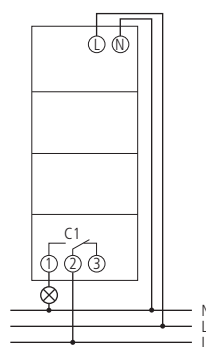
Memory card OBELISK top2

Details page 335

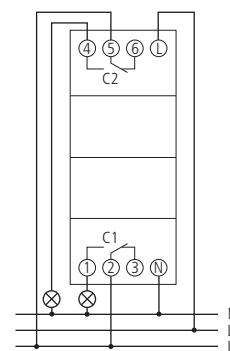
PC set OBELISK top2/3

Details page 335

Connection diagrams



TR 610 top3, TR 610 top2



TR 612 top3, TR 612 top2

Time and light control

Digital time switches, DIN rail, 2 modules

2



TR 611 top3

TR 611 top3 RC

TR 622 top3

Description

Common functions

- Digital time switch with weekly program
- DuoFix spring terminals
- Text-oriented user guidance in display
- 84 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- ON-OFF switching times
- Pulse program
- Cycle program
- Switching preselection
- Permanent switching ON/OFF
- Timer countdown
- Integrated operating hour counter
- Holiday program
- 2 random programs
- Display back light (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

Functions top3 devices

- Programming by app possible
- Safe transfer via optional Bluetooth Low Energy OBELISK top3
- Maximum manipulation security, time switch programs can only be transferred from the app to the time switch when the Bluetooth OBELISK top3 is plugged into the time switch
- 100 % compatible with top2

TR 611 top3

- 1 channel, external input
- 3 special programs (small annual program)
- 84 memory locations

TR 611 top3 RC

- Time synchronisation option via connection of an external DCF or GPS antenna (GPS not with 24 V device)
- Additional power unit required for GPS if only one device is connected to the antenna
- 1 channel, external input
- 3 special programs (small annual program)
- 84 memory locations

TR 611 top3

- 2 channels, 2 external inputs
- 3 special programs (small annual program)
- 84 memory locations
- Channel switching and channel locking possible

TR 611 top2

- 1 channel
- External input
- 84 memory locations

TR 622 top2

- 2 channel
- 2 external inputs
- 84 memory locations

Produktauswahl

Program	Program functions	Number of channels	App programming	Time basis	Operating voltage	Type	Article number
Weekly program	ON-OFF, Pulse, Cycle	1	✓	Quarz	230 V AC	TR 611 top3	6110130
			-		12-24 V UC	TR 611 top2 24V	6114100
		2	✓	Quarz/DCF77/ GPS	110-230 V AC	TR 611 top3 RC	6110330
			-		12-24 V UC	TR 611 top2 RC 24V	6114300
		2	✓	Quarz	230 V AC	TR 622 top2	6220130
			-		12-24 V UC	TR 622 top2 24V	6224100

Technische Daten

	TR 611 top3	TR 611 top2 24V	TR 611 top3 RC	TR 611 top2 RC 24V	TR 622 top3	TR 622 top2 24V
Operating voltage	230 V AC	12–24 V UC	110–230 V AC	12–24 V UC	230 V AC	12–24 V UC
Frequency	50–60 Hz					
Width	2 TE					
Installation type	DIN-Schiene					
Type of contact	Wechsler					
Power reserve	10 Jahre					
Switching capacity at 250 V AC, cos φ = 1	16 A					
Switching capacity at 250 V AC, cos φ = 0,6	10 A	2 A	10 A	2 A	10 A	2 A
Incandescent / halogen lamp load	2600 W	1400 W	2600 W	1400 W	2600 W	1400 W
Energy saving lamps	1100 W	30 W	1100 W	30 W	1100 W	30 W
LED lamp < 2 W	50 W	6 W	50 W	6 W	50 W	6 W
LED lamp 2–8 W	600 W	20 W	600 W	20 W	600 W	20 W
LED lamp > 8 W	600 W	25 W	600 W	25 W	600 W	25 W
Switching capacity min.	ca. 10 mA					
Shortest switching times	1 s					
Time accuracy at 25 °C	typisch ± 0,25 s/Tag (Quarz)		typisch ± 0,25 s/Tag (Quarz) oder DCF77/GPS		typisch ± 0,25 s/Tag (Quarz)	
Stand-by consumption	0,4 W	0,3 W	0,75 W	0,9 W	0,4 W	0,3 W
Test approval	–					
Type of protection	IP 20					
Protection class	II nach EN 60 730-1					
Ambient temperature	–30 °C ... +60 °C		–25 °C ... +55 °C		–30 °C ... +55 °C	–25 °C ... +55 °C

Accessories



PC set OBELISK top2/3
↳ Art.No.: 9070409
Details page 335



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335



Bluetooth OBELISK top3
↳ Art.No.: 9070130
Details page 335

Front panel kit
Details page 334

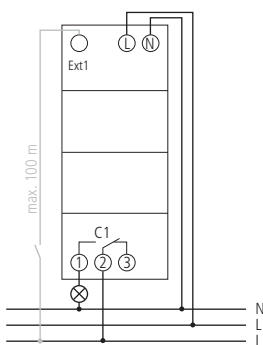
Antenna top2 RC-DCF
Details page 335

Antenna top2 RC-GPS
Details page 335

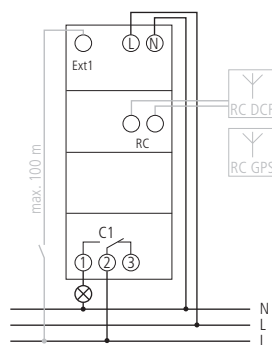
Power unit top2 GPS
Details page 335

Wall mounting kit
Details page 334

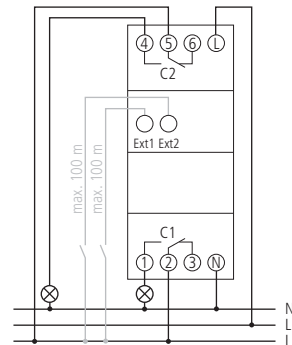
Connection diagrams



TR 611 top3



TR 611 top3 RC



TR 622 top3

Time and light control

Digital time switches, DIN rail, 2 modules

2



SELEKTA 170 top3

SELEKTA 174 top3

SELEKTA 175 top2

Description

Common functions

- Astronomical time switch with weekly program
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
- DuoFix spring terminals
- Text-oriented user guidance in display
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- Calculated astronomical switching times
- Programmable ON-OFF switching times
- Switching preselection
- Permanent switching ON/OFF
- Integrated operating hour counter
- Holiday program
- Display back light (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

Functions top3 devices

- Programming by app possible
- Safe transfer via optional Bluetooth Low Energy OBELISK top3
- Maximum manipulation security, time switch programs can only be transferred from the app to the time switch when the Bluetooth OBELISK top3 is plugged into the time switch
- 100 % compatible with top2

SELEKTA 170 top3

- 1 channel
- 56 memory locations

SELEKTA 174 top3

- As SELEKTA 170 top3:
- 2 channels

SELEKTA 171 top3 RC

- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS (GPS not with 24 V device)
- Additional power unit (9070892) required for GPS if only one device is connected to the antenna

- 1 channel, external input
- 3 special programs (small annual program)
- 3 custom twilight ranges plus adjustable offset (sunset, twilight, darkness)
- Astro-pulse, 84 memory locations

SELEKTA 172 top3

- 2 channels, 2 external inputs
- 3 special programs (small annual program)
- 3 custom twilight ranges plus adjustable offset (sunset, twilight, darkness)
- Astro-pulse, 84 memory locations
- Channel switching and channel locking possible

SELEKTA 170 top2

- 1 channel
- 56 memory locations

SELEKTA 175 top2

- 1 channel
- 56 memory locations
- External input

Product selection

Program	Number of channels	App programming	Time basis	Operating voltage	Type	Article number
Weekly program, astronomical program	1	✓	Quarz	230 V AC	SELEKTA 170 top3	1700130
	2	✓	Quarz	230 V AC	SELEKTA 174 top3	1740130
	1	-	Quarz	12-24 V UC	SELEKTA 170 top2 24V	1704100
		✓	Quarz/DCF77/GPS	110-230 V AC	SELEKTA 171 top3 RC	1710330
	2	-		12-24 V UC	SELEKTA 171 top2 RC 24V	1714100
		✓	Quarz		230 V AC	SELEKTA 172 top3
	1	-		12-24 V UC	SELEKTA 172 top2 24V	1724100
		-	Quarz		230-240 V AC	SELEKTA 175 top3

Technical data

	SELEKTA 170 top3	SELEKTA 174 top3	SELEKTA 170 top2 24V	SELEKTA 171 top3 RC	SELEKTA 171 top2 RC 24V	SELEKTA 172 top3	SELEKTA 172 top2 24V	SELEKTA 175 top2
Operating voltage	230 V AC		12–24 V UC	110–230 V AC	12–24 V UC	230 V AC	12–24 V UC	230–240 V AC
Frequency	50–60 Hz							
Width	2 modules							1 module
Installation type	DIN rail							
Power reserve	10 years							
Switching capacity at 250 V AC, cos φ = 1	16 A							
Switching capacity at 250 V AC, cos φ = 0,6	10 A	2 A	10 A	2 A	10 A	2 A	2 A	4 A
Incandescent/halogen lamp load	2600 W	1400 W	2600 W	1400 W	2600 W	1400 W	1400 W	2000 W
Energy saving lamps	1100 W	30 W	1100 W	30 W	1100 W	30 W	30 W	300 W
LED lamp < 2 W	50 W	6 W	50 W	6 W	50 W	6 W	6 W	55 W
LED lamp 2–8 W	600 W	20 W	600 W	20 W	600 W	20 W	20 W	180 W
Switching capacity min.	ca. 10 mA							
Shortest switching times	1 min							
Time accuracy at 25 °C	typical ± 0,25 s/day (Quarz)			typical ± 0,25 s/day (quartz) or DCF77/GPS		typical ± 0,25 s/day (Quarz)		
Stand-by consumption	0,4 W	0,2 W	0,75 W	0,8 W	0,4 W	0,2 W	0,2 W	0,4 W
Test approval	–							
Type of protection	IP 20							
Protection class	II according to EN 60 730-1							
Ambient temperature	–30 °C ... +60 °C	–30 °C ... +55 °C	–25 °C ... +55 °C		–30 °C ... +55 °C	–25 °C ... +55 °C		

Accessories



PC set OBELISK top2/3
↳ Art.No.: 9070409
Details page 335



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335



Bluetooth OBELISK top3
↳ Art.No.: 9070130
Details page 335

Front panel kit
Details page 334

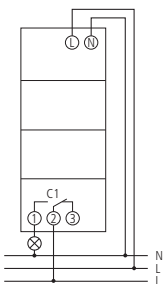
Antenna top2 RC-DCF
Details page 335

Antenna top2 RC-GPS
Details page 335

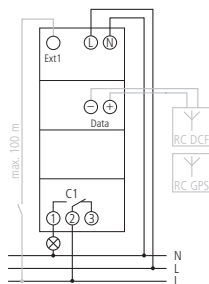
Power unit top2 GPS
Details page 335

Wall mounting kit
Details page 334

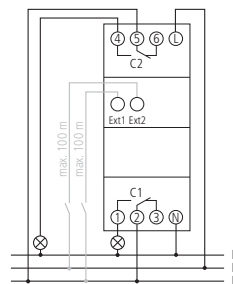
Connection diagrams



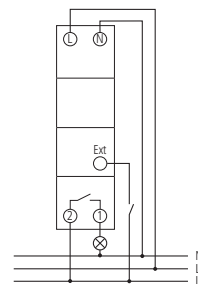
SELEKTA 170 top3



SELEKTA 171 top3 RC



SELEKTA 172 top3



SELEKTA 175 top2

Time and light control

Digital time switches, DIN rail, 3 modules, 4 modules

2



TR 641 top2

TR 642 top2 RC

TR 644 top2

Description

Common functions

- Digital time switch with yearly and astronomical time program
- DuoFix spring terminals
- Text-oriented user guidance in display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 8 year power reserve (lithium battery)
- Zero-cross switching for leay-saving switching and high lamp loads (not with 24 V devices)
- Automatic summer/winter time changeover
- ON-OFF switching times
- Pulse program
- Cycle program
- Extensive yearly clock functions
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
- Switching preselection

- Permanent switching ON/OFF
- Count-down timer
- Integrated operating hour counter
- Holiday program
- 2 random programs
- Display back light (can be turned off)
- PIN coding

TR 641 top2

- 1 channel
- External input

TR 641 top2 RC

- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS
- 1 channel
- External input
- Extension module can be connected
- Memory card OBELISK top2 included in delivery

TR 642 top2

- 2 channels
- 2 external inputs

TR 642 top2 RC

- As TR 641 top2 RC but:
- 2 channels
- 2 external inputs

TR 644 top2

- 4 channels
- 4 external inputs

TR 644 top2 RC

- As TR 641 top2 RC but:
- 4 channels
- 4 external inputs

Product selection

Program	Number of channels	External inputs	Time basis	Memory card supplied	Program functions	Operating voltage	Type	Article number
Yearly program, astronomical program	1	1	Quartz	-	ON-OFF, Pulse, Cycle	110–240 V AC	TR 641 top2	6410100
			Quartz/DCF77/GPS	✓	ON-OFF, Pulse, Cycle	110–240 V AC	TR 641 top2 RC	6410300
						12–24 V UC	TR 641 top2 RC 24V	6414300
	2	2	Quartz	-	ON-OFF, Pulse, Cycle	110–240 V AC	TR 642 top2	6420100
			Quartz/DCF77/GPS	✓	ON-OFF, Pulse, Cycle	110–240 V AC	TR 642 top2 RC	6420300
						12–24 V UC	TR 642 top2 RC 24V	6424300
	4	4	Quartz	-	ON-OFF, Pulse, Cycle	110–240 V AC	TR 644 top2	6440100
			Quartz/DCF77/GPS	✓	ON-OFF, Pulse, Cycle	110–240 V AC	TR 644 top2 RC	6440300

Time and light control

Digital time switches, DIN rail, 3 modules, 4 modules

2

Technical data

	TR 641 top2	TR 642 top2	TR 641 top2 RC	TR 642 top2 RC	TR 644 top2	TR 644 top2 RC	TR 641 top2 RC 24V	TR 642 top2 RC 24V
Operating voltage	110–240 V AC						12–24 V UC	
Frequency	50–60 Hz							
Width	3 modules				4 modules		3 modules	
Installation type	DIN rail							
Power reserve	8 years							
Switching capacity at 250 V AC, cos φ = 1	16 A				2 x 16 A 2 x 10 A		16 A	
Switching capacity at 250 V AC, cos φ = 0,6	10 A							
Incandescent / halogen lamp load 230 V	2600 W				2300 W		1400 W	
Incandescent / halogen lamp load 120 V	1300 W				1150 W		–	
Energy saving lamps 230 V	37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W						7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	
Energy saving lamps 120 V	18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W							
LED lamp < 2 W	50 W							
LED lamp 2–8 W	180 W							
LED lamp > 8 W	200 W							
Switching capacity min.	Approx. 10 mA							
Shortest switching time	1 s							
Time accuracy at 25 °C	≤ ± 0,5 s/day (quartz)		≤ ± 0,5 s/day (quartz) or DCF77/GPS		≤ ± 0,5 s/day (quartz)		≤ ± 0,5 s/day (quartz) or DCF77/GPS	
Stand-by consumption	0,6 W	0,6 W	1,2 W	1,2 W	0,5 W	1,3 W	1,5 W	
Type of protection	IP 20							
Protection class	II according to EN 60 730-1							
Ambient temperature	–30 °C ... +45 °C							

Accessories



EM 4 top2
for TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC
↳ Art.No.: 6490104
Details page 38



EM LAN top2
for TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC
↳ Art.No.: 6490900
Details page 38



Antenna top2 RC-DCF
for TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC
↳ Art.No.: 9070410
Details page 335

Wall mounting kits
Details page 334

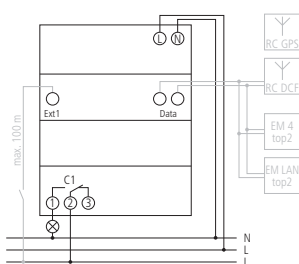
Front panel kit
Details page 334

Antenna top2 RC-GPS
Details page 335

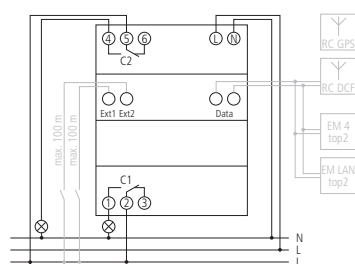
Memory card OBELISK top2
Details page 335

PC set OBELISK top2/3
Details page 335

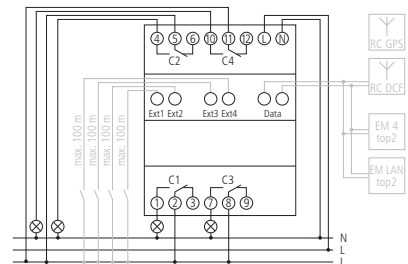
Connection diagrams



TR 641 top2 RC



TR 642 top2 RC



TR 644 top2 RC

Time and light control

Digital time switches, DIN rail, 3 modules, 4 modules

2



EM LAN top2



EM 4 top2

Description

EM LAN top2

- Ethernet communication module for remote access via LAN network to time switches TR 641 top2 RC, TR 642 top2 RC and TR 644 top2 RC
- Remote programming using OBELISK top2 PC software
- Direct remote access to time switch (e.g. reading out switching status, performing manual switching, checking time) with OBELISK top2 Software
- Width: 3 modules

EM 4 top2

- Extension module for TR 641 top2 RC, TR 642 top2 RC and TR 644 top2 RC
- 4 channels
- Width: 4 modules
- DuoFix spring terminals
- 4 external inputs
- Switching preselection
- Permanent ON/OFF switching
- 4 LEDs for displaying switching status
- Zero-cross switching for relay-saving switching and high lamp loads

Product selection

Type	Article number
EM LAN top2	6490900
EM 4 top2	6490104

Technical data

	EM LAN top2	EM 4 top2
Operating voltage	230 V AC	110–240 V AC
Frequency	50–60 Hz	
Width	3 modules	4 modules
Installation type	DIN rail	
Type of contact	–	Two-way switch
Switching capacity at 250 V AC, $\cos \varphi = 1$	–	16 A
Switching capacity channels 1+3	–	10 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	–	10 A
Incandescent/halogen lamp load 230 V	–	2300 W
Incandescent/halogen lamp load 120 V	–	1150 W
Energy saving lamps 230 V	–	22 x 7 W, 18 x 11 W
Energy saving lamps 120 V	–	11 x 7 W, 9 x 11 W
Switching capacity min.	–	ca. 10 mA
Stand-by consumption	3,2 W	1,5 W
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–30 °C ... +50 °C	–30 °C ... +55 °C

Accessories



Wall mounting kit 52,5 mm

Details page 334

Wall mounting kit 70 mm

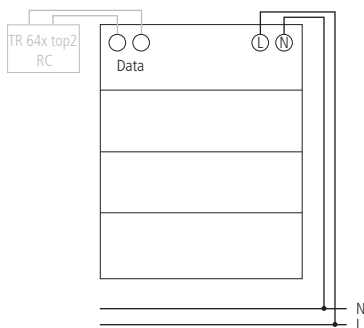
Details page 334

Front panel kit

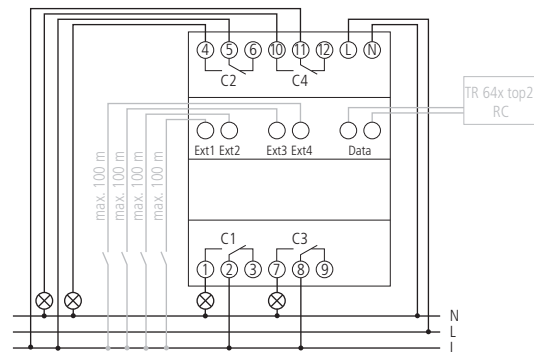
↳ Art.No.: 9070001

Details page 334

Connection diagrams



EM LAN top2



EM 4 top2

Time and light control

Digital time switches, DIN rail, 1 module

2



TR 608 top2 S

TR 609 top2 S

SELEKTA 175 top2

Description

Common functions

- 1 channel
- DuoFix spring terminals
- Text-oriented user guidance in display
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Switching preselection
- Integrated operating hour counter
- Holiday program
- PIN coding
- Automatic summer/winter time changeover

TR 608 top2 S

- Digital time switch with weekly program
- 56 memory locations
- ON-OFF switching times
- Permanent switching ON/OFF

TR 609 top2 S

- Digital time switch with weekly program
- 84 memory locations
- External input
- Pulse program
- Cycle program
- Timer countdown
- 2 random programs
- ON-OFF switching times
- Permanent switching ON/OFF

SELEKTA 175 top2

- Astronomical time switch with weekly program
- External input
- 56 memory locations
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
- Offset for adjusting of sunrise and sunset times
- Calculated astronomical switching times
- Fixed ON-OFF switching times can be programmed (e.g. night time interruption)
- Permanent switching ON/OFF

Product selection

Program	Number of channels	Memory locations	Program functions	Operating voltage	Type	Article number
Weekly program	1	56	-	230–240 V AC	TR 608 top2 S	6080101
		84	-	230–240 V AC	TR 609 top2 S	6090101
Weekly program, astronomical program	1	1	Quartz	230–240 V AC	SELEKTA 175 top2	1750100

Technical data

	TR 608 top2 S	TR 609 top2 S	SELEKTA 175 top2
Operating voltage	230–240 V AC		
Frequency	50–60 Hz		
Width	1 module		
Installation type	DIN rail		
Type of contact	Changeover contact	NO contact	
Power reserve	10 years		
Switching capacity at 250 V AC, cos φ = 1	16 A		
Switching capacity at 250 V AC, cos φ = 0,6	4 A		
Incandescent / halogen lamp load 230 V	1000 W	2000 W	
Energy saving lamps 230 V	30 W	300 W	
LED lamp < 2 W	6 W	55 W	
LED lamp > 2 W	60 W	600 W	
Switching capacity min.	10 mA		
Shortest switching times	1 min		
Time accuracy at 25 °C	typical ± 0,25 s/day (quartz)		
Stand-by consumption	0,4 W		
Test approval	△		-
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	-25 °C ... +55 °C		

Accessories

Front panel kit

Details page 334

Wall mounting kit 17,5 mm

Details page 334

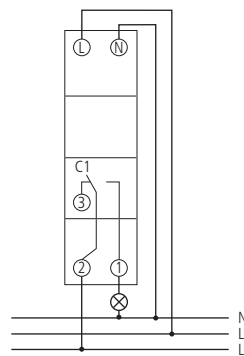
Memory card OBELISK top2

Details page 335

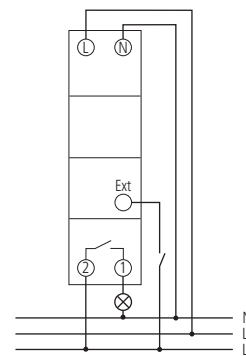
PC set OBELISK top2/3

Details page 335

Connection diagrams



TR 608 top2 S



TR 609 top2 S, SELEKTA 175 top2

Time and light control

Digital time switches, Front panel installation/wall installation

2



TR 635 top2

TR 636 top2

Description

Common functions

- Digital time switch with weekly program
- Text-based operator guidance in the display
- 84 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- ON-OFF switching times
- Pulse program
- Cycle program
- Switching preselection
- Permanent ON/OFF switching
- Count-down timer
- Integrated hour counter
- Holiday program
- 2 random programs
- Back lighting (can be turned off)
- PIN coding
- Automatic summer / winter time changeover

TR 635 top2

- 1 channel

TR 636 top2

- 2 channels

Product selection

Program	Number of channels	Memory locations	Program functions	Operating voltage	Type	Article number
Weekly program	1	84	ON-OFF, Pulse, Cycle	230–240 V AC	TR 635 top2	6350100
	2	84	ON-OFF, Pulse, Cycle	230–240 V AC	TR 636 top2	6360100

Time and light control

Digital time switches, Front panel installation/wall installation

2

Technical data

	TR 635 top2	TR 636 top2
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Installation type	Front panel installation/wall installation	
Type of contact	Changeover contact	
Power reserve	10 years	
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A	6 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A	6 A
Incandescent/halogen lamp load	2300 W	1200 W
Energy saving lamps 230 V	90 W	
LED lamp < 2 W	20 W	
LED lamp 2–8 W	50 W	
Shortest switching times	1 s	
Time accuracy at 25 °C	$\leq \pm 0,5$ s/day (quartz) at 25 °C	
Stand-by consumption	0,9 W	1,1 W
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–30 °C ... +55 °C	

Accessories



PC set OBELISK top2/3
↳ Art.No.: 9070409
Details page 335

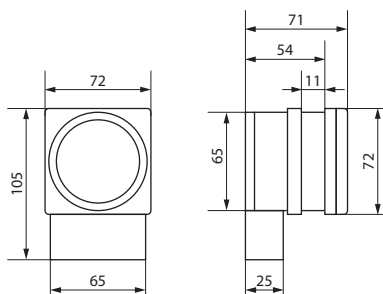


Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335



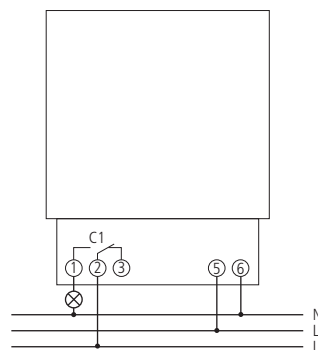
Snap-on mounting 72 x 72
↳ Art.No.: 9070071
Details page 334

Scale drawings

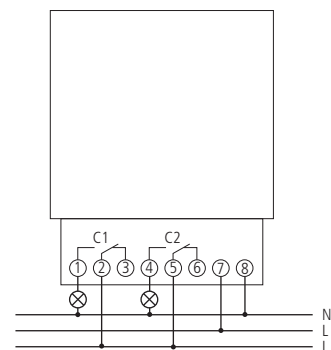


TR 635 top2, TR 636 top2

Connection diagrams



TR 635 top2



TR 636 top2

Time and light control

Digital time switches, Front panel installation/wall installation

2



TR 684-1 top2

Description

Common functions

- Digital time switch with weekly program
- 1 channel
- Timer module without plug-in base
- Connection by 4.8 mm AMP flat plug for original installation standard devices
- For installation in regulation and control
- Text-based operator guidance in the display
- 56 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- ON-OFF switching times
- Switching preselection
- Permanent ON/OFF switching
- Integrated hour counter
- Holiday program
- Back lighting (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

Product selection

Program	Number of channels	Memory locations	Program functions	Operating voltage	Type	Article number
Weekly program	1	56	ON-OFF	230–240 V AC	TR 684-1 top2	6840100

Technical data

	TR 684-1 top2
Operating voltage	230–240 V AC
Frequency	50–60 Hz
Installation type	Front panel installation/wall installation
Type of contact	Changeover contact
Power reserve	10 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	6 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	1 A
Shortest switching times	1 min
Time accuracy at 25 °C	$\leq \pm 0,5 \text{ s/day}$ (quartz) at 25 °C
Stand-by consumption	1 W
Type of protection	IP 20
Protection class	II according to EN 60 730-1
Ambient temperature	-10 °C ... +55 °C

Accessories



Multiple contact strip
↳ Art.No.: 9075141
Details page 334

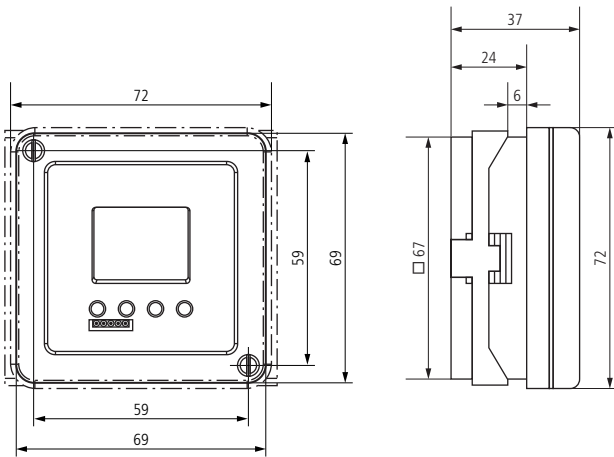


PC set OBELISK top2/3
↳ Art.No.: 9070409
Details page 335

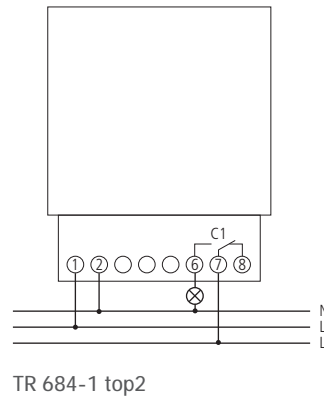


Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335

Scale drawings



Connection diagrams



Time and light control

Digital time switches, Front panel installation/wall installation

2



Description

Common functions

- Digital time switch for drive control of roller blinds and blinds
- Integrated buttons for manual control (Up/Down/Stop button)
- Slide switch for setting the operating mode (Manual/Auto)
- Programming of intermediate position and ventilation position
- Blocking time (prevents the roller blinds from moving up or down too early, due to the Astro function)
- Holiday program (presence simulation)
- Astro position selectable by city list or coordinates (longitude/latitude)
- Text-based user guidance in the display
- Automatic summer-winter time changeover
- Removable control panel
- Replaceable battery (type CR 2032)

theRolla S031

- „Astro evening“ program - opens roller blinds and blinds according to a programmed switching time and closes them automatically at sunset via Astro command
- „Individual switching times“ program - opens and closes roller blinds and blinds according to a programmed switching time
- Times programmable for two fixed blocks (Monday-Friday, Saturday-Sunday)

theRolla P032

- Comfort time switch
- „Astro“ program - opens and closes roller blinds and blinds at sunrise and sunset times (Astro times).
- „Astro evening“ program - opens roller blinds and blinds according to a programmed switching time and closes them automatically at sunset via Astro command
- „Individual switching times“ program - opens and closes roller blinds and blinds according to programmed switching times
- Additional second special program
- Times individually programmable for each weekday
- Times programmable for two fixed blocks (Monday-Friday, Saturday-Sunday)
- Times programmable for one fixed block (Monday-Sunday)
- Connection of an optional light sensor (sun protection/dimming function)

Product selection

Program	External light sensor connectable	Comfort functions	Type	Article number
Weekly program, Astronomical program	–	–	theRolla S031	0310100
	✓	✓	theRolla P032	0320100

Time and light control

Digital time switches, Front panel installation/wall installation

Technical data

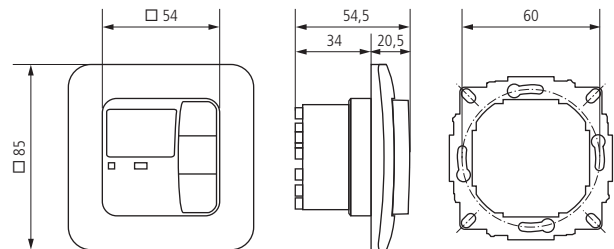
	theRolla S031	theRolla P032
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Installation type	Wall installation	
Switching capacity at 250 V AC, $\cos \phi = 1$	5 A	
Type of protection	IP 20	
Protection class	II	
Battery	1 x CR 2032	
Type of contact	2 x NO contact	
Ambient temperature	0 °C ... +55 °C	

Accessories

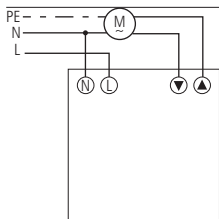


Light sensor theRolla
for theRolla P032
↳ Art.No.: 9070926
Details page 334

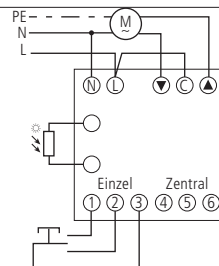
Scale drawings



Connection diagrams



theRolla S031



theRolla P032

Time and light control

Digital time switches, Plug-in

2



Description

Common functions

- Digital plug-in timer with weekly program
- Use with earthed sockets
- 1 channel
- Easy operation via keys for program function and day of the week, hours, minutes

- ON-OFF switching times
- Switching preselection
- Permanent switching ON/OFF
- Random program
- Automatic summer/winter time changeover

theben-eltimo 020 S

- 36 memory locations

theben-eltimo 020 S DCF

- DCF radio control
- 33 memory locations

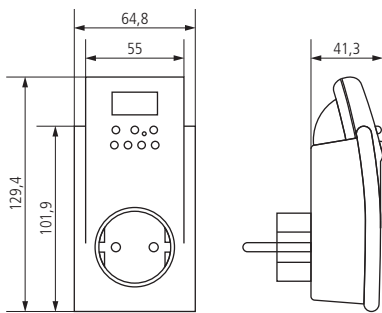
Product selection

Program	Number of channels	Memory locations	Time basis	Operating voltage	Type	Article number
Weekly program	1	36	Quartz	230 V AC	theben-eltimo 020 S	0200000
		33	Quartz/DCF77	230 V AC	theben-eltimo 020 S DCF	0200300

Technical data

	theben-eltimo 020 S	theben-eltimo 020 S DCF
Operating voltage	230 V AC	
Frequency	50 Hz	
Installation type	Plug-in	
Type of contact	NO contact	
Power reserve	20 days	
Switching capacity at 250 V AC, cos φ = 1	16 A	
Switching capacity at 250 V AC, cos φ = 0,6	2 A	
Incandescent/halogen lamp load 230 V	1000 W	
Shortest switching times	1 min	
Time accuracy at 25 °C	≤ ± 1 s/day (quartz)	DCF77 synchronous or ≤ ± 1 s/day (quartz)
Stand-by consumption	0,8 W	
Type of protection	IP 20	
Protection class	II for housing, I for plug system as per EN 62 730-1	
Ambient temperature	-10 °C ... +40 °C	

Scale drawings



theben-eltimo 020 S, theben-eltimo 020 S DCF



A special form of stability

Stability is a precondition for innovative power, Theben offers both. Everyone benefits, our customers, our partners and our employees. Because only those with the required resource can invest in innovation, but also the solid foundations of a company create climate of trust. This kind of predictability has characterised Theben's success for many years. Behind that lies a local virtue, one that is of special importance in times like these, solidarity.


TIME AND LIGHT CONTROL

Analogue time switches

3

	Program	Number of channels	Type of contact	Power reserve	Shortest switching times	Programmable every	Type of connection	Type	Page
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DIN rail, 1 module

	Daily program	1	NO contact	–	15 min	15 min	Screw terminals	SYN 160 a	52
				3 days	15 min	15 min	Screw terminals	SUL 180 a	52
	Weekly program	1	NO contact	3 days	2 h	2 h	Screw terminals	MEM 190 a	52


DIN rail, 3 modules

	60 minutes program	1	Changeover contact	–	37,5 s	37,5 s	DuoFix spring terminals	SYN 151 h	54
	Daily program	1	Changeover contact	–	15 min	15 min	DuoFix spring terminals	SYN 161 d	54
				200 hours	15 min	15 min	DuoFix spring terminals	SUL 181 d	54
	Weekly program	1	Changeover contact	200 hours	2 h	2 h	DuoFix spring terminals	SUL 191w	54
	Daily program	2	Changeover contact	3 days	30 min	15 min	Screw terminals	SUL 188 g	56
	Daily/weekly program with 1/2 day OFF function	1	Changeover contact	3 days	45 min, 12 h	15 min, 12 h	Screw terminals	SUL 188 hw	56


Front panel installation/wall installation

	Daily program	1	Changeover contact	–	15 min	15 min	Screw terminals	SYN 169 s	58
				3 days	15 min	15 min	Screw terminals	SUL 189 s	58
	Daily program	1	Changeover contact	–	20 min, 2 h	5 min, 30 min	Screw terminals	SYN 269 h	60
				3 days	20 min, 2 h	5 min, 30 min	Screw terminals	SUL 289 h	60
			2	Changeover contact	3 days	20 min, 2 h	5 min, 30 min	Screw terminals	SUL 289 g
	60 minutes program	1	Changeover contact	–	1,25 min	18,5 s	Screw terminals	TM 179 h	62
	Daily/weekly program with 1/2 day OFF function	1	Changeover contact	3 days	30 min, 12 h	15 min, 12 h	Screw terminals	SUL 189 hw	62


Wall installation/3-point mounting

	Daily program	2	Changeover contact	6 days	20 min	5 min	Screw terminals	SUL 285/2 T	64
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Plug-in

	Daily program	1	NO contact	–	15 min	15 min	Plug-in	theben-timer 26	65
								theben-timer 26 IP 44	65
		Weekly program	1	NO contact	–	2 h	2 h	Plug-in	theben-timer 27

Surface-mounted

	Daily and defrost program	2	Changeover contact	–	2 min, 1 h	1 min, 1 h	Screw terminals	FRI 77 g	66
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Drive with quick fastening for DIN rail

	Daily and defrost program	1	Changeover contact	–	2 min, 1 h	1 min, 1 h	Screw terminals	FRI 77 h-2	66
		2	Changeover contact	–	2 min, 1 h	1 min, 1 h	Screw terminals	FRI 77 g-2	66

Time and light control

Analogue time switches, DIN rail, 1 module

3



SYN 160 a

SUL 180 a

MEM 190 a

Description

Common functions

- Analogue time switch
- 1 channel
- Screw terminals
- Manual switch with 3 positions: Permanent ON/AUTO/continuous OFF

SYN 160 a

- Daily program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 15 minutes

SUL 180 a

- Daily program
- With power reserve
- 96 switching segments
- Quartz controlled
- Shortest switching time: 15 minutes

MEM 190 a

- Weekly program
- With power reserve
- 84 switching segments
- Quartz controlled
- Shortest switching time: 2 hours

Product selection


Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	1	-	15 min	15 min	NO contact	230 V AC	SYN 160 a	1600001
		3 days	15 min	15 min	NO contact	230–240 V AC	SUL 180 a	1800001
Weekly program	1	3 days	2 h	2 h	NO contact	230–240 V AC	MEM 190 a	1900001

Time and light control

Analogue time switches, DIN rail, 1 module

3

Technical data

	SYN 160 a	SUL 180 a	MEM 190 a
Operating voltage	230 V AC	230 – 240 V AC	
Frequency	50 Hz	50 – 60 Hz	
Width	1 module		
Installation type	DIN rail		
Program	Daily program		Weekly program
Power reserve	–	3 days	
Switching capacity at 250 V AC, cos φ = 1	16 A		
Switching capacity at 250 V AC, cos φ = 0,6	4 A		
Incandescent / halogen lamp load	1000 W		
Energy saving lamps	150 W		
LED lamp < 2 W	30 W		
LED lamp 2 – 8 W	90 W		
LED lamp > 8 W	100 W		
Shortest switching times	15 min		2 h
Programmable every	15 min		2 h
Time accuracy at 25 °C	Synchronised with mains	≤ ± 1 s / day (quartz)	
Stand-by consumption	0,9 W	0,5 W	
Test approval			
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	–25 °C ... +50 °C	–10 °C ... +50 °C	

Accessories

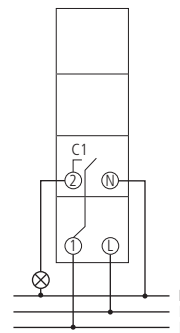


Front panel kit
↳ Art.No.: 9070001
Details page 334



Wall mounting kit 17,5 mm
↳ Art.No.: 9070065
Details page 334

Connection diagrams



SYN 160 a, SUL 180 a, MEM 190 a

Time and light control

Analogue time switches, DIN rail, 3 modules

3



SYN 151 h

SUL 181 d

SUL 191 w

Description

Common functions

- Analogue time switch
- 1 channel
- DuoFix spring terminals
- Switching preselection
- Manual switch with 3 positions: Continuous ON/AUTO/continuous OFF
- Switching status display

SYN 151 h

- 60 minute program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 37.5 seconds

SYN 161 d

- Daily program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 15 minutes
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction

SUL 181 d

- Daily program
- With power reserve (NiMH rechargeable battery)
- 96 switching segments
- Quartz controlled
- Shortest switching time: 15 minutes
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction

SUL 191 w

- Weekly program
- With power reserve (NiMH rechargeable battery)
- 84 switching segments
- Quartz controlled
- Shortest switching time: 2 hours
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction

Product selection


Program	Number of channels	Power reserve	Shortest switching time	Programmable every	Type of contact	Operating voltage	Type	Article number	
60 minutes program	1	-	37,5 s	37,5 s	Changeover contact	230 V AC	SYN 151 h	1510011	
Daily program	1	-	15 min	15 min	Changeover contact	230 V AC	SYN 161 d	1610011	
			200 h	15 min	15 min	Changeover contact	110–230 V AC	SUL 181 d	1810011
							12–24 V UC	SUL 181 d 24V	1814011
Weekly program	1	200 h	2 h	2 h	Changeover contact	110–230 V AC	SUL 191 w	1910011	

Time and light control

Analogue time switches, DIN rail, 3 modules

3

Technical data

	SYN 151 h	SYN 161 d	SUL 181 d	SUL 191 w	SUL 181 d 24V
Operating voltage	230 V AC		110–230 V AC		12–24 V UC
Frequency	50 Hz		50–60 Hz		
Width	3 modules				
Installation type	DIN rail				
Program	60 minutes program	Daily program		Weekly program	Daily program
Power reserve	–		200 hours, approx. 100 hours at 110 V		200 hours
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A	16 A			
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A				
Incandescent/halogen lamp load	1100 W				
LED lamp < 2 W	20 W				
LED lamp > 2 W	180 W				
Shortest switching time	37,5 s	15 min		2 h	15 min
Programmable every	37,5 s	15 min		2 h	15 min
Time accuracy at 25 °C	Synchronised with mains		$\leq \pm 1$ s/day (quartz)		
Stand-by consumption	0,9 W	0,5 W			
Test approval					–
Type of protection	IP 20				
Protection class	II according to EN 60 730-1				
Ambient temperature	–20 °C ... +55 °C				

Accessories

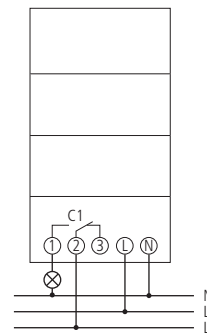


Wall mounting kit 52,5 mm
↳ Art.No.: 9070050
Details page 334

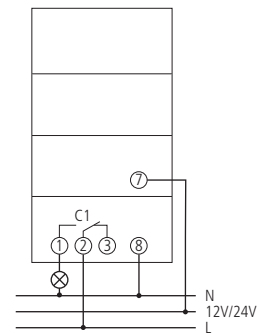


Front panel kit
↳ Art.No.: 9070001
Details page 334

Connection diagrams



SYN 151 h, SYN 161 d,
SUL 181 d, SUL 191 w



SUL 181 d 24V

Time and light control

Analogue time switches, DIN rail, 3 modules

3



SUL 188 g

SUL 188 hw

Description

Common functions

- Analogue time switch
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- Tappets
- Screw terminals
- Switching status display
- Operating indication

SUL 188 g

- Daily program
- 2 channels
- Fine adjustment to set the time to the minute
- Shortest switching time: 30 minutes
- 10 tappets included in delivery

SUL 188 hw

- Daily/weekly program and 1/2 day OFF function for the weekdays
- 1 channel (with series connection of the 2 contacts)
- Tappets and turning segments
- Shortest switching time: 45 minutes (12 hours for the 1/2 day OFF function)
- 6 tappets included in delivery

Product selection


Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	2	3 days	30 min	15 min	Changeover contact	230 V AC	SUL 188 g	1880033
Daily/weekly program with 1/2 day OFF function	1	3 days	45 min, 12 h	15 min, 12 h	Changeover contact	230 V AC	SUL 188 hw	1880108

Time and light control

Analogue time switches, DIN rail, 3 modules

3

Technical data

	SUL 188 g	SUL 188 hw
Operating voltage	230 V AC	
Frequency	45–60 Hz	
Width	3 modules	
Installation type	DIN rail	
Program	Daily program	Daily/weekly program with 1/2 day OFF function
Power reserve	3 days	
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A	
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A	
Shortest switching times	30 min	45 min, 12 h
Programmable every	15 min	15 min, 12 h
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	
Stand-by consumption	0,5 W	
Test approval		
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–20 °C ... +55 °C	

Accessories



Front panel kit

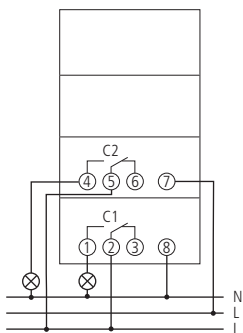
↳ Art.No.: 9070001
Details page 334



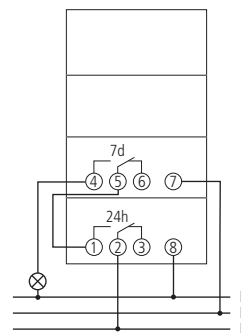
Terminal cover 52,5 mm

↳ Art.No.: 9070061
Details page 334

Connection diagrams



SUL 188 g



SUL 188 hw

Time and light control

Analogue time switches, Front panel installation/wall installation

3



SYN 169 s

SUL 189 s

Description

Common functions

- Analogue time switch
- 1 channel
- Daily program
- 96 switching segments
- Shortest switching time: 15 minutes
- Clock hands for time display
- Switching preselection
- Permanent ON/OFF switch
- Switching status display
- Simple summer/winter time correction

SYN 169 s

- Without power reserve
- Synchronised with mains

SUL 189 s

- With power reserve (NiMH rechargeable battery)
- Quartz controlled

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	1	-	15 min	15 min	Changeover contact	230 V AC	SYN 169 s	1690801
		3 days	15 min	15 min	Changeover contact	230 V AC	SUL 189 s	1890801
						110 V AC	SUL 189 s 110V	1891801

Time and light control

Analogue time switches, Front panel installation/wall installation

3

Technical data

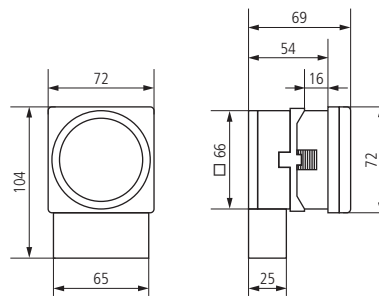
	SYN 169 s	SUL 189 s	SUL 189 s 110V
Operating voltage	230 V AC		110 V AC
Frequency	50 Hz	50–60 Hz	
Installation type	Front panel installation/wall installation		
Program	Daily program		
Power reserve	–	3 days, full power reserve approx. 3 days after connection to operating voltage	
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A		
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	2 A		
Shortest switching times	15 min		
Programmable every	15 min		
Time accuracy at 25 °C	Synchronised with mains	$\leq \pm 1$ s/day (quartz)	
Stand-by consumption	0,9 W	0,5 W	
Test approval			–
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	–10 °C ... +55 °C		

Accessories



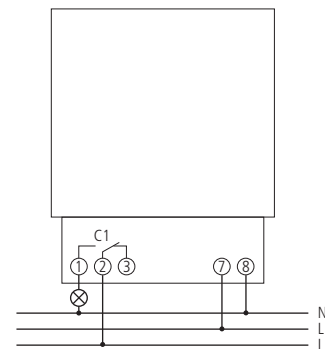
Snap-on mounting 72 x 72
 ↳ Art.No.: 9070071
 Details page 334

Scale drawings



SYN 169 s, SUL 189 s

Connection diagrams



SYN 169 s, SUL 189 s

Time and light control

Analogue time switches, Front panel installation/wall installation

3



SYN 269 h

SUL 289 g

Description

Common functions

- Analogue time switch with daily or weekly program (switching disc can be turned)
- Tappets
- Shortest switching time: 20 minutes or 2 hours
- Clock hands for time display
- Switching status display

SYN 269 h

- 1 channel
- Without power reserve
- Synchronised with mains
- Switching preselection
- Permanent ON/OFF switch
- Simple summer/winter time correction
- 32 tappets included in delivery

SUL 289 h

- 1 channel
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- Switching preselection
- Permanent ON/OFF switch
- Simple summer/winter time correction
- 32 tappets included in delivery

SUL 289 g

- 2 channels
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- 49 tappets included in delivery

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	1	-	20 min, 2 h	5 min, 30 min	Changeover contact	230 V AC	SYN 269 h	2690008
		3 days	20 min, 2 h	5 min, 30 min	Changeover contact	230 V AC	SUL 289 h	2890008
	2	3 days	20 min, 2 h	5 min, 30 min	Changeover contact	230 V AC	SUL 289 g	2890033

Time and light control

Analogue time switches, Front panel installation/wall installation

3

Technical data

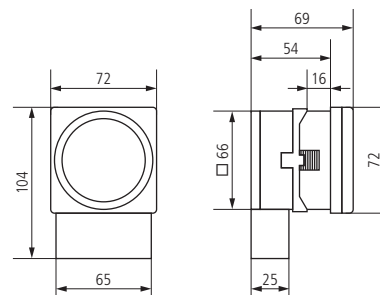
	SYN 269 h	SUL 289 h	SUL 289 g
Operating voltage	230 V AC		
Frequency	50 Hz	50–60 Hz	
Installation type	Front panel installation/wall installation		
Program	Daily program, Weekly program		
Power reserve	–	3 days, full power reserve approx. 3 days after connection to operating voltage	
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A		
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	2 A		
Shortest switching times	20 min, 2 h		
Programmable every	5 min, 30 min		
Time accuracy at 25 °C	Synchronised with mains	$\leq \pm 1$ s/day (quartz)	
Stand-by consumption	0,9 W	0,5 W	
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	–10 °C ... +55 °C		

Accessories

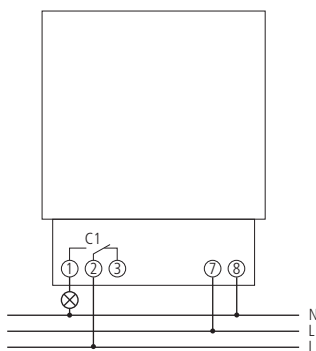


Snap-on mounting 72 x 72
 ↳ Art.No.: 9070071
 Details page 334

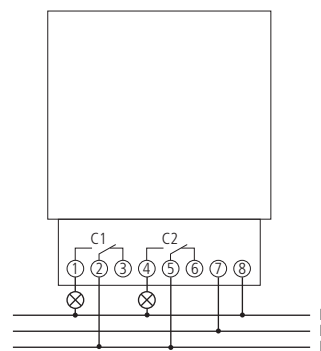
Scale drawings



Connection diagrams



SYN 269 h, SUL 289 h



SUL 289 g

Time and light control

Analogue time switches, Front panel installation/wall installation

3



TM 179 h

SUL 189 hw

Description

Common functions

- Analogue time switch
- Switching status display
- 6 tappets included in delivery

TM 179 h

- 60 minute program
- 1 channel
- Without power reserve
- Synchronised with mains
- Tappets
- Shortest switching time: 75 seconds
- Switching preselection

SUL 189 hw

- Daily/weekly program and 1/2 day OFF function for the weekdays
- 1 channel (with series connection of 2 the contacts)
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- Tappets and turning segments
- Shortest switching time: 30 minutes (12 hours for the 1/2 day OFF function)

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
60 minutes program	1	-	1,25 min	18,5 s	Changeover contact	230 V AC	TM 179 h	1790008
Daily/weekly program with 1/2 day OFF function	1	3 days	30 min, 12 h	15 min, 12 h	Changeover contact	230 V AC	SUL 189 hw	1890108

Time and light control

Analogue time switches, Front panel installation/wall installation

3

Technical data

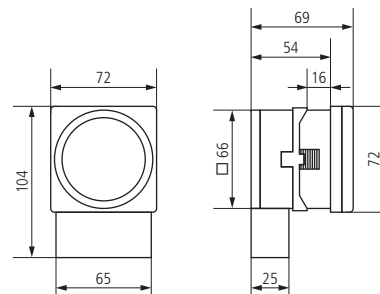
	TM 179 h	SUL 189 hw
Operating voltage	230 V AC	
Frequency	50 Hz	50–60 Hz
Installation type	Front panel installation/wall installation	
Program	60 minutes program	Daily/weekly program with 1/2 day OFF function
Power reserve	–	3 days, full power reserve approx. 3 days after connection to operating voltage
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A	
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	2 A	
Shortest switching times	1,25 min	30 min, 12 h
Programmable every	18,5 s	15 min, 12 h
Time accuracy at 25 °C	Synchronised with mains	$\leq \pm 1$ s/day (quartz)
Stand-by consumption	0,9 W	0,5 W
Test approval		
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–10 °C ... +55 °C	

Accessories

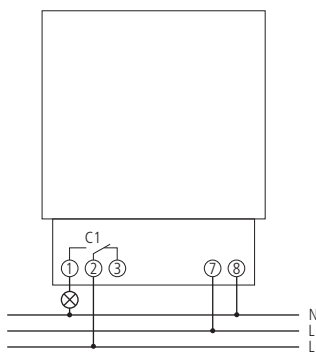


Snap-on mounting 72 x 72
 ↳ Art.No.: 9070071
 Details page 334

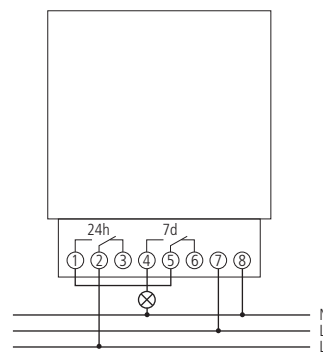
Scale drawings



Connection diagrams



TM 179 h



SUL 189 hw

Time and light control

Analogue time switches, Wall installation/3-point mounting

3



SUL 285/2 T

Description

- Analogue tariff time switch with daily program
- 2 channels
- With power reserve (exchangeable NiMH rechargeable battery)
- Quartz controlled
- Tappets
- Shortest switching time: 20 minutes
- Clock hands for time display
- Switching status display
- Simple summer/winter time correction
- Control LED for battery change
- 32 tappets included in delivery

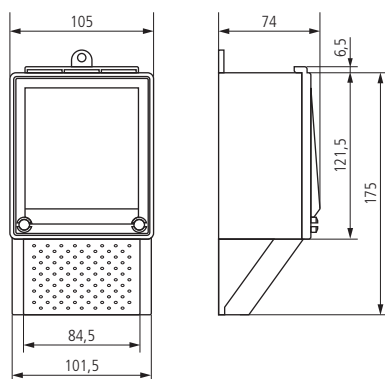
Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	2	6 days	20 min	5 min	Changeover contact	110–230 V AC	SUL 285/2 T	2850033

Technical data

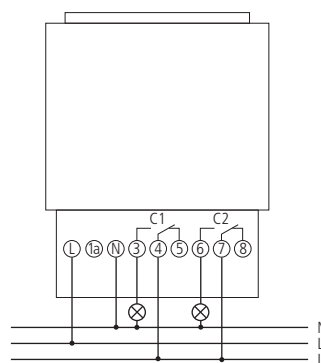
SUL 285/2 T			
Operating voltage	110–230 V AC	Shortest switching times	20 min
Frequency	50–60 Hz	Programmable every	5 min
Installation type	Wall installation/3-point mounting	Time accuracy at 25 °C	± 1 s/day (quartz)
Program	Daily program	Stand-by consumption	0,6 W
Power reserve	6 days, full power reserve approx. 3 days after connection to operating voltage	Type of protection	IP 54
Switching capacity at 250 V AC, cos φ = 1	6 A	Protection class	II according to EN 62 054-21
Switching capacity at 250 V AC, cos φ = 0,6	2 A	Ambient temperature	–10 °C ... +55 °C

Scale drawings



SUL 285/2 T

Connection diagrams



SUL 285/2 T



Description

Common functions

- Analogue plug-in timer
- 1 channel
- Without power reserve
- Synchronised with mains
- Use with earthed sockets
- Switching preselection
- Switching status display

theben-timer 26

- Daily program
- 96 switching segments
- Shortest switching time: 15 minutes

theben-timer 26 IP 44

As theben-timer 26, but:

- Waterproof protection for damp locations and outdoor areas
- Transparent cover

theben-timer 27

- Weekly program
- 84 switching segments
- Shortest switching time: 2 hours

* According to guarantee conditions, see www.theben.de/en/guarantee

Product selection

Program	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	15 min	15 min	NO contact	230 V AC	theben-timer 26	0260030
				230 V AC	theben-timer 26 IP 44	0260855
Weekly program	2 h	2 h	NO contact	230 V AC	theben-timer 27	0270930

Technical data

	theben-timer 26	theben-timer 26 IP 44	theben-timer 27
Operating voltage	230 V AC		
Frequency	50 Hz		
Installation type	Plug-in		
Program	Daily program		Weekly program
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A		
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A		
Shortest switching times	15 min		2 h
Programmable every	15 min		2 h
Time accuracy at 25 °C	Synchronised with mains		
Stand-by consumption	0,8 W		
Type of protection	IP 20	IP 44	IP 20
Protection class	II according to EN 60 730-1		
Ambient temperature	-40 °C ... +55 °C		

Time and light control

Analogue time switches, Surface-mounted, Drive with quick fastening for DIN rail

3



FRI 77 g



FRI 77 g-2

Description

Common functions

- Analogue cooling time switch with daily and short time program
- Tappet
- 2 separate switching discs

FRI 77 g

- 2 channels
- Wall-mounted
- 8 tappets included in delivery
- Optional delayed switching on of fan

FRI 77 g-2

- 2 channels
- Drive with quick fastening for DIN rail
- 8 tappets included in delivery
- Optional delayed switching on of fan

FRI 77 h-2

- 1 channel
- Drive with quick fastening for DIN rail
- 6 tappets included in delivery

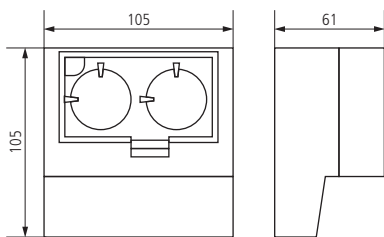
Product selection

Type of contact	Installation type	Shortest switching times	Programmable every	Operating voltage	Type	Article number
Changeover contact	Surface-mounted	2 min, 1 h	1 min, 1 h	230 V AC	FRI 77 g	0770033
	Drive with quick fastening for DIN rail	2 min, 1 h	1 min, 1 h	230 V AC	FRI 77 h-2	0770802
					FRI 77 g-2	0770832

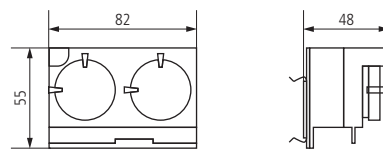
Technical data

	FRI 77 g	FRI 77 h-2	FRI 77 g-2
Operating voltage	230 V AC		
Frequency	50 Hz		
Installation type	Surface-mounted	Drive with quick fastening for DIN rail	
Program	Daily and defrost program		
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A		
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	2,5 A		
Shortest switching times	2 min, 1 h		
Programmable every	1 min, 1 h		
Time accuracy at 25 °C	Synchronised with mains		
Stand-by consumption	0,9 W		
Type of protection	IP 20	IP 00	
Protection class	II according to EN 60 730-1		
Ambient temperature	- 10 °C ... +50 °C		

Scale drawings

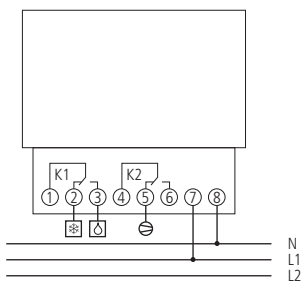


FRI 77 g

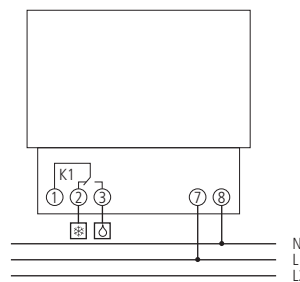


FRI 77 h-2, FRI 77 g-2

Connection diagrams



FRI 77 g, FRI 77 g-2

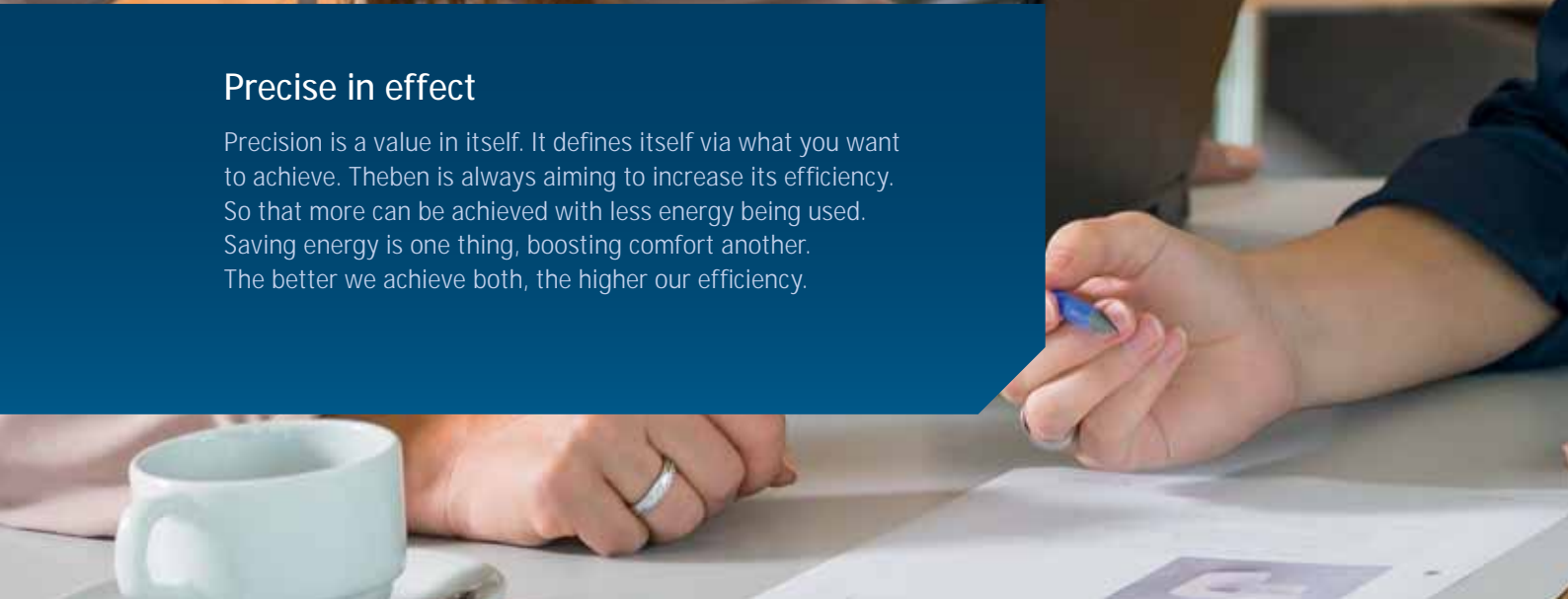


FRI 77 h-2



Precise in effect

Precision is a value in itself. It defines itself via what you want to achieve. Theben is always aiming to increase its efficiency. So that more can be achieved with less energy being used. Saving energy is one thing, boosting comfort another. The better we achieve both, the higher our efficiency.







Description	Type	Page
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Time relays

 Multi-function relay	TM 345 M	70
 Time relay with switch function	TM 345 B	70

Installation type	Size front plate	Type	Page
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Hour counters, analogue

 Front panel installation	48 x 48 mm	BZ 142-1	72
		BZ 142-3	72
	52 x 52 mm	BZ 143-1	72
 DIN rail	35 x 45 mm	BZ 145	72

Hour counters, digital

 Front panel installation	24 x 48 mm	BZ 146	74
	48 x 48 mm	BZ 147	74
 DIN rail	35 x 45 mm	BZ 148	74

Time and light control

Time relays

4



TM 345 M

TM 345 B

Description

Common functions

- Electronic time relay
- Can be used universally for controlling automatic processes in machines, lighting, ventilation, heating, cupboards etc.
- Precise analogue time setting
- Multi-voltage input for all supply and control voltages, no jumpers or additional terminals are required

- LED to display the switching status

TM 345 M

- Locking snap switch to select the period of time, as well as the following operating modes:
- Response delay (AV), without control contact
- Wipe contact (EW), without control contact
- Release delay (RV), with control contact
- Pulse former (IF), with control contact

- Response and release delay (VZ), with control contact
- Pulse output (WR), with control contact
- Flip-flop (TG)

TM 345 B

- With flip-flop function
- Pulse and break time independently adjustable

Product selection

Multi-function	Type	Article number
√	TM 345 M	3450731
-	TM 345 B	3450730

Technical data

	TM 345 M	TM 345 B
Operating voltage	12 – 240 V AC/DC	24 – 240 V AC/24 V DC
Frequency	50 – 60 Hz	
Width	1 module	
Stand-by consumption	1 W	
Type of contact	Changeover contact	
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic	
Switching capacity at 250 V AC, $\cos \varphi = 1$	8 A	
Switching output	Potential-free	
Nominal current	10 mA – 20 A < 10 ms	
Electrical service life	10 ⁵ operating cycles	
Fall back value of nominal input voltage	< 10.2 V AC/DC (as per EN 61812-1)	< 20.4 V AC/DC (as per EN 61812-1)
Type of protection	IP 20	
Protection class	II	
Ambient temperature	–20 °C ... +60 °C	

Accessories



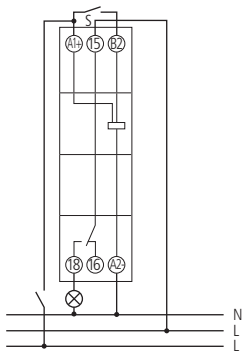
Wall mounting kit 35 mm

for BZ 145

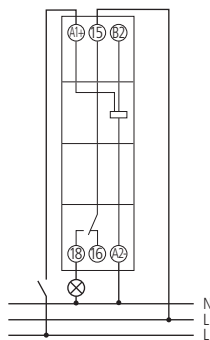
↳ Art.No.: 9070064

Details page 334

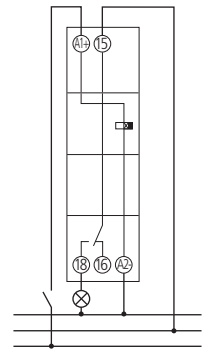
Connection diagrams



TM 345 M



TM 345 M



TM 345 B

Time and light control

Hour counters, analogue, front panel and DIN rail

4



Description

Common functions

- Hour counter with synchronous motor drive

BZ 142-1

- Front panel devices with click-in or stretch clamp supports for walls up to a maximum of 10 mm thick
- Clamp or flat plug connection 6.3 mm
- Versions for direct voltage with quartz-controlled stepper motor
- Progress display

BZ 142-3

- With plug-in base for wall installation (terminal cover required)
- Plug-in base with quick fastening for 35 mm profile rails (DIN EN 60 715)
- Screw terminals
- Contact protection to comply with accident prevention regulation BGV A3
- Housing colour: anthracite
- Versions for direct voltage with quartz-controlled stepper motor
- Progress display

BZ 143-1

As BZ 142-1

BZ 145

- Built in distributor device with quick fastening for 35 mm profile rails (DIN EN 60 715)
- Top mounting with additional terminal box cover plate, sealable
- Control panel installation with assembly kit No. 907 0 001
- Contact protection to comply with accident prevention regulation BGV A3
- Captive screw terminals

Product selection

Counting range	Installation type	Size front plate	Size of Installation section	Operating voltage	Type	Article number
99 999,99 hours without reset	Front panel installation	48 x 48 mm	46 x 46 mm	230 V AC	BZ 142-1	1420721
				10–80 V DC	BZ 142-1 10V	1420821
				230–240 V AC	BZ 142-1 230V	1420621
				24 V AC	BZ 142-1 24V	1424721
				230 V AC	BZ 142-3	1420723
		10–80 V DC	BZ 142-3 10V	1420823		
		52 x 52 mm	46 x 46 mm or ø 50 mm	230 V AC	BZ 143-1	1430721
				10–80 V DC	BZ 143-1 10V	1430821
				24 V AC	BZ 143-1 24V	1434721
				230 V AC	BZ 145	1450000
24–48 V DC	BZ 145 24V			1459024		
99 999,9 hours without reset	DIN rail	35 x 45 mm	35 x 45 mm (depth 60 mm)	230 V AC	BZ 145	1450000
				24–48 V DC	BZ 145 24V	1459024

Technical data

	BZ 142-1	BZ 142-1 10V	BZ 142-1 230V	BZ 142-1 24V	BZ 142-3	BZ 142-3 10V	BZ 143-1	BZ 145	BZ 145 24V	
Operating voltage	230 V AC	10–80 V DC	230–240 V AC	24 V AC	230 V AC	10–80 V DC	230 V AC	230 V AC	24–48 V DC	
Frequency	50 Hz	–	60 Hz	50 Hz		–	50 Hz		–	
Width	–							2 modules		
Installation type	Front panel installation							DIN rail		
Counting range	99 999,99 hours without reset							99 999,9 hours without reset		
Type of protection	IP 65 (Front frame)							IP 20		
Protection class	II according to EN 60 335-1									
Ambient temperature	–20 °C ... +70 °C							–10 °C ... +70 °C		

Accessories



Cover 55 x 55 for BZ
for BZ 142-1
↳ Art.No.: 9070041
Details page 336



Cover 72 x 72 for BZ
for BZ 142-1
↳ Art.No.: 9070074
Details page 336

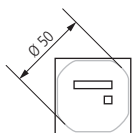


Front kit BZ 142-3
for BZ 142-3
↳ Art.No.: 9070075
Details page 336

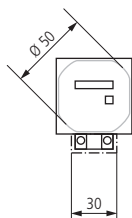
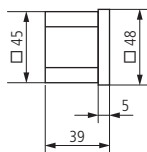


Wall mounting kit 35 mm
for BZ 145
↳ Art.No.: 9070064
Details page 334

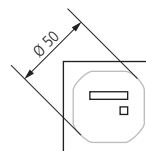
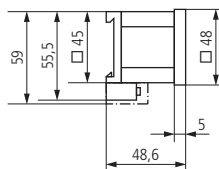
Scale drawings



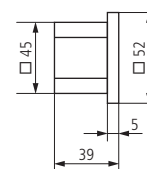
BZ 142-1



BZ 142-3



BZ 143-1



Time and light control

Hour counters, digital, front panel and DIN rail

4



Description

Common functions

- Digital hour counter
- With EEPROM memory provides reliable operating data capture even with loss of power
- 7-digit high-contrast LCD display
- Onscreen progress display

BZ 146

- Installation cutout 22 mm x 45 mm
- Control panel installation
- Screw terminals
- Tension clamp brackets for walls up to 5mm thick
- Quartz controlled version

BZ 147

- Installation cutout 45 mm x 45 mm
- Control panel installation
- Screw terminals
- Tension clamp brackets for walls up to 5mm thick
- Quartz controlled version

BZ 148

- For DIN rail mounting with quick fastening for 35 mm profile rails (DIN EN 60 715)
- Surface mounting with additional terminal box cover plate option
- Captive screw terminals

Product selection

Counting range	Installation type	Size front plate	Size of Installation section	Operating voltage	Type	Article number
99 999,99 hours without reset	Front panel installation	24 x 48 mm	22 x 45 mm	110–240 V AC	BZ 146	1460000
		48 x 48 mm	45 x 45 mm	110–240 V AC	BZ 147	1470000
999 999.9 hours without reset	DIN rail	35 x 45 mm	35 x 45 mm (depth 60 mm)	24–240 V AC/12–150 V DC	BZ 148	1480000

Technical data

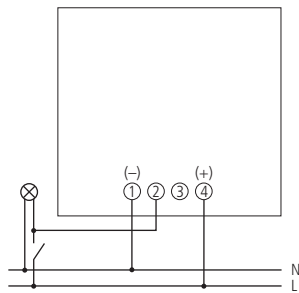
	BZ 146	BZ 147	BZ 148
Operating voltage	110 – 240 V AC		24 – 240 V AC / 12 – 150 V DC
Frequency	50 – 60 Hz		
Width	–		2 modules
Installation type	Front panel installation		DIN rail
Counting range	99 999,99 hours without reset		999 999.9 hours without reset
Type of protection	IP 65		IP 20
Protection class	II according to EN 61010		
Ambient temperature	–30 °C ... +70 °C		–10 °C ... +70 °C

Accessories

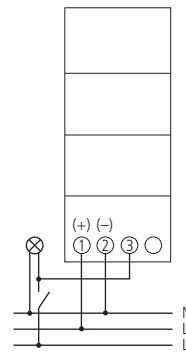


Wall mounting kit 35 mm
for BZ 148
↳ Art.No.: 9070064
Details page 334

Connection diagrams

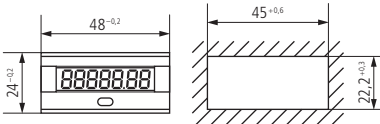


BZ 146, BZ 147

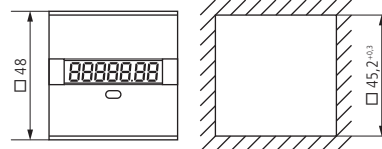


BZ 148

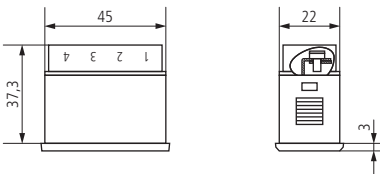
Scale drawings



BZ 146



BZ 147





Everything in view


When Paul Schwenk developed the first staircase time switch in 1921, it was due to his special kind of attentiveness. He noticed that the staircase light never switched off so lots of energy was being wasted. What then may have been no more than an expression of his frugality is now in demand worldwide as a consequence of climate change: using energy sensibly. Theben has been making a contribution to that for a long time now and not just with staircase light time switches. We call that attentiveness.

TIME AND LIGHT CONTROL


Staircase time switches/Dimmer

	Setting range time	Key input	Multi-voltage input	Switch-off pre-warning	Long-time function	Zero-cross switching	Without stand-by consumption	Type	Page
--	--------------------	-----------	---------------------	------------------------	--------------------	----------------------	------------------------------	------	------


DIN rail, electronic with multi-function

	0,5–20 min	150 mA	✓	✓	60 min	✓	–	ELPA 1	78
			–	✓	60 min	✓	–	ELPA 6	78
									ELPA 6 plus


DIN rail, Electronic

	0,5–20 min	150 mA	✓	–	–	–	–	ELPA 3	78
			–	–	–	–	–	ELPA 7	78

DIN rail, Electro-mechanical

	1–7 min	50 mA	–	–	–	–	✓	ELPA 8	80
									ELPA 9

Flush-mounted, electronic with multi-function



	0,5–20 min	30 mA	✓	✓	60 min	✓	–	ELPA 041	82
--	------------	-------	---	---	--------	---	---	----------	----

Flush-mounted, electronic with switch-off pre-warning

	0,5–20 min	30 mA	–	–	–	✓	–	ELPA 047	82
---	------------	-------	---	---	---	---	---	----------	----

	Universal dimmer for R, L, and C loads	Mounting type	Multi-voltage input	Multifunction	Operation via App possible	Type	Page
--	--	---------------	---------------------	---------------	----------------------------	------	------

Dimmer

	✓	DIN rail	✓	–	–	DIMAX 532 plus	84
				✓	–	DIMAX 534 plus	84
		Flush-mounted	–	–	–	DIMAX 541 plus E	86
				–	–	DIMAX 542 plus S	86
				–	✓	DIMAX 544 plus	86

Time and light control

Staircase time switches, DIN rail, electronic with multi-function, Electronic

5



Description

Common functions

- Staircase time switch, electronic
- Terminal layout same as ELPA 8
- Extremely accurate
- Push button input with electronic overload protection
- Automatic 3 or 4 conductor detection (4 conductor with connection for floor lighting, 3 conductor no longer permitted for new systems)

ELPA 1

- Zero-cross switching for relay-saving switching and high lamp loads
- Multi-functional device with 10 available functions, set at the front of the device
- Additional multi-voltage input electrically isolated for AC/DC 8...240 V, e.g. für intercoms
- Switch-off pre-warning (two double flashes) in accordance with DIN 18015-2 to avoid sudden darkness

- Extended function activated via long button press
- Immediate secondary switching (stair light switch) or prematurely switched off (pulse switch with switch-off delay)
- Permanent switch
- Electronic pulse light

ELPA 6

- Zero-cross switching for relay-saving switching and high lamp loads
- Multi-functional device with 10 available functions, set at the front of the device
- Switch-off pre-warning (two double flashes) in accordance with DIN 18015-2 to avoid sudden darkness
- Extended function activated via long button press
- Immediate secondary switching (stair light switch) or prematurely switched off (pulse switch with switch-off delay)
- Permanent switch
- Electronic pulse light

ELPA 6 plus

As ELPA 6 but:

- Switch-off pre-warning (two flashes) optimized for switching LEDs

ELPA 3

- Additional multi-voltage input electrically isolated for AC/DC 8...240 V, e.g. für intercoms
- Immediate secondary switching
- Toggle switch for permanent light

ELPA 7


As ELPA 3 but:

- Without multi-voltage input

Product selection

Incandescent lamp load	Multi-function	Multi-voltage input	Switch-off pre-warning	Zero-cross switching	Type	Article number
3600 W	✓	✓	✓	✓	ELPA 1	0010002
		-	✓	✓	ELPA 6	0060002
		-	-	-	ELPA 6 plus	0060003
2300 W	-	✓	-	-	ELPA 3	0030002
		-	-	-	ELPA 7	0070002

Technical data

	ELPA 1	ELPA 6	ELPA 6 plus	ELPA 3	ELPA 7
Operating voltage	220 – 240 V AC				
Frequency	50 – 60 Hz				
Stand-by consumption	0,9 W			0,7 W	
Glow lamp load	150 mA				
Setting range time	0,5 – 20 min				
3/4-way conductors	Automatic				
Type of contact	NO contact				
Switching output	Not potential-free (230 V)				
Incandescent / halogen lamp load	3600 W			2300 W	
Fluorescent lamp load (conventional) lead-lag circuit	3600 VA			2300 VA	
Energy saving lamps	250 W			90 W	
LED lamp < 2 W	55 W			20 W	
LED lamp 2 – 8 W	600 W			180 W	
LED lamp > 8 W	600 W			180W	
Switching capacity	16 AX (at 230 V AC, cos φ = 0.3), 16 A (at 230 V AC, cos φ = 1)			10 AX (at 230 V AC, cos φ = 0.3), 16 A (at 230 V AC, cos φ = 1)	
Test approval					
Ambient temperature	– 25 °C ... + 50 °C				
Protection class	II				
Type of protection	IP 20				

Accessories

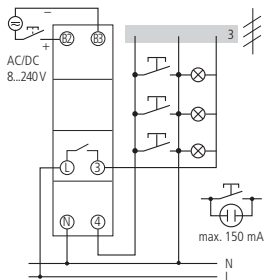


Wall mounting kit 17,5 mm
↳ Art.No.: 9070065
Details page 334

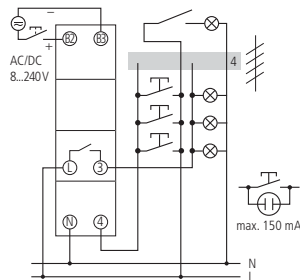


Front panel kit
↳ Art.No.: 9070001
Details page 334

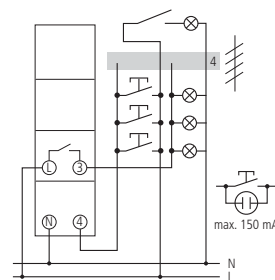
Connection diagrams



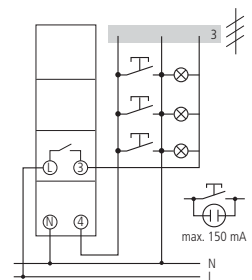
ELPA 1, ELPA 3



ELPA 1, ELPA 3



ELPA 6, ELPA 6 plus, ELPA 7



ELPA 6, ELPA 6 plus, ELPA 7

Time and light control

Staircase time switches, DIN rail, Electro-mechanical

5



Description

Common functions

- Staircase time switch, electro-mechanical
- No closed-circuit current consumption
- Toggle switch for permanent light ON
- Reliable due to synchronous motor drive
- Simplest possible time setting and direct delay time readout on absolute scale
- Precision mechanics and therefore exact switching period
- Very low sensitivity to interference

* According to guarantee conditions, see www.theben.de/en/guarantee

ELPA 8

- 4 conductor with floor lighting connection
- 3 conductor without floor lighting (no longer permitted for new systems)
- Retriggerable

ELPA 9

- 3 conductor connection and floor lighting, but without secondary switching (no longer permitted for new systems)
- Terminal layout same as ELPA 8

Product selection

Incandescent lamp load	Setting range time	Without stand-by consumption	Switch-off pre-warning	3/4-way conductors	Secondary switching	Type	Article number
2300 W	1–7 min	✓	–	Yes	After 30 s	ELPA 8	0080002
				Only 3-way conductor	No	ELPA 9	0090001

Technical data

	ELPA 8	ELPA 9
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0 W	
Glow lamp load	50 mA	
Setting range time	1 – 7 min	
3/4-way conductors	Yes	Only 3-way conductor
Type of contact	NO contact	
Switching output	Not potential-free (230 V)	
Incandescent / halogen lamp load	2300 W	
Energy saving lamps	150 W	
LED lamp < 2 W	30 W	
LED lamp 2 – 8 W	300 W	
LED lamp > 8 W	300 W	
Switching capacity	6 AX (at 230 V AC, cos φ = 0.3), 16 A (at 230 V AC, cos φ = 1)	
Test approval		–
Ambient temperature	–10 °C ... +50 °C	
Protection class	II	
Type of protection	IP 20	

Accessories

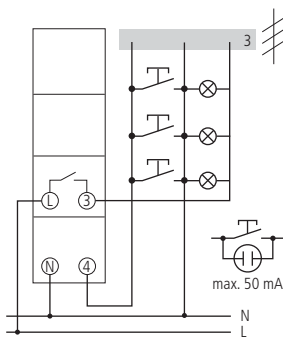


Wall mounting kit 17,5 mm
↳ Art.No.: 9070065
Details page 334

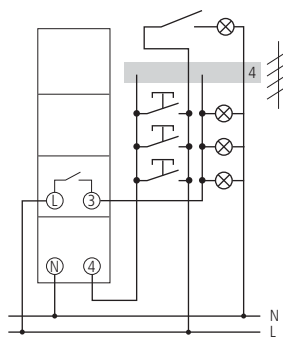


Front panel kit
↳ Art.No.: 9070001
Details page 334

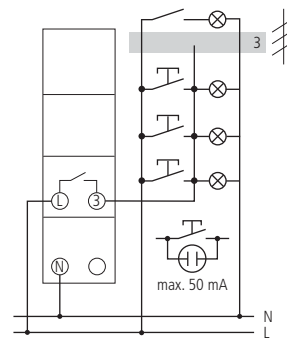
Connection diagrams



ELPA 8



ELPA 8



ELPA 9

Time and light control

Staircase time switches, Flush-mounted



ELPA 041

ELPA 047

5

Description

Common functions

- Flush-mounted staircase time switch, electronic
- Suitable for upgrades and new installation
- Zero-cross switching for relay-saving switching and high lamp loads
- Push button input with electronic overload protection
- Automatic 3 or 4 conductor detection (4 conductor with connection for floor lighting, 3 conductor no longer permitted for new systems)
- Extremely accurate
- Immediate secondary switching

ELPA 041

- Multi-functional device with 12 available functions, set at the front of the device
- Switch or push button connectable, i.e. existing switches can be used (e.g. when updating)
- Additional multi-voltage input electrically isolated for AC/DC 8...240 V, e.g. für inter-coms
- Switch-off pre-warning (two double flashes) in accordance with DIN 18015-2 to avoid sudden darkness
- 60 min. extended function activated via long button press
- Immediate secondary switching (stair light switch) or prematurely switched off (pulse switch with switch-off delay)

ELPA 047

- Push button connectable

Product selection


Incandescent lamp load	Multi-function	Multi-voltage input	Switch-off pre-warning	Zero-cross switching	Type	Article number
1800 W	✓	✓	✓	✓	ELPA 041	0410002
	-	-	-	✓	ELPA 047	0470002

Technical data

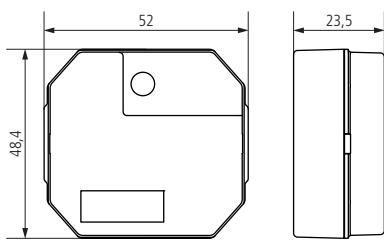
	ELPA 041	ELPA 047
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0,1 W	
Glow lamp load	30 mA	
Setting range time	0,5–20 min	
3/4-way conductors	Automatic	
Type of contact	NO contact	

Time and light control

Staircase time switches, Flush-mounted

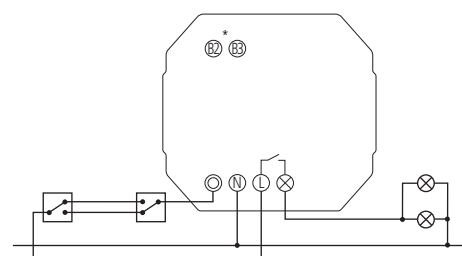
	ELPA 041	ELPA 047
Switching output	Not potential-free (230 V)	
Incandescent/halogen lamp load	1800 W	
Fluorescent lamp load (conventional) lead-lag circuit	1200 VA	
Fluorescent lamp load (conventional) parallel-corrected	580 VA, 54 µF	
Energy saving lamps	110 W	
LED lamp < 2 W	20 W	
LED lamp 2-8 W	250 W	
LED lamp > 8 W	250 W	
Switching capacity	6 AX (at 230 V AC, cos φ = 0.3), 10 A (at 230 V AC, cos φ = 1)	
Test approval		
Ambient temperature	-25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 20	

Scale drawings



ELPA 041, ELPA 047

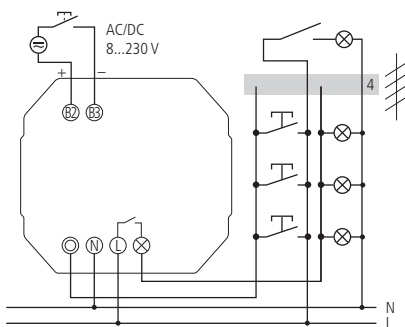
Connection diagram



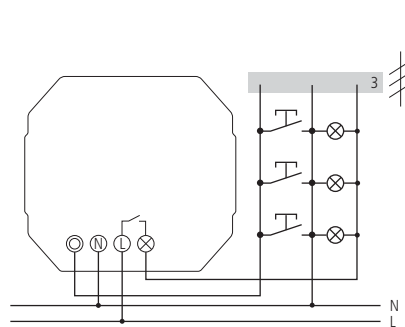
ELPA 041

* with switch
(with three-way switch the multi-voltage input is not usable)

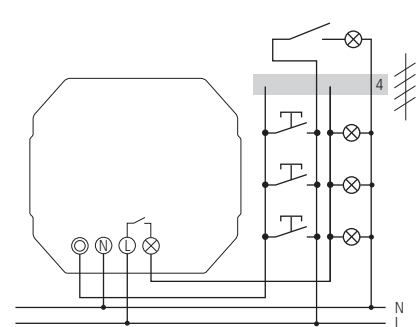
Connection diagrams



ELPA 041



ELPA 047



ELPA 047

Time and light control

Dimmer

5



DIMAX 532 plus

DIMAX 534 plus

Description

Common functions

- Universal dimmer for R, L and C loads with automatic load detection
- Switch-on brightness can be saved individually
- Adjustable minimum brightness (required for ESL and LED)
- Multi-voltage input, e.g. for intercoms
- Low stand-by consumption
- Memory function in the event of power failure
- Automatic electronic overload and overheating switch-off
- Dimming switch-on function

- Permanent ON function (test function)
- No minimum load requirement
- Soft ON and Soft OFF protects the light
- The dimming output can be upgraded by using additional dimmboosters „DMB 1 T KNX“ - dimming output 300 W/VA for each dimmbooster

DIMAX 534 plus

- Comfort setting with wake-up and snooze function (can be deactivated), e.g. for children's bedrooms
- Adjustable dimming rate (with automatic functions)

- One and two button operation for ease of use
- Up to 3 light scenes can be called up via separate input (diode module required for more than one light scene)
- Central OFF/ON or light scene for up to 10 devices possible with one push button
- Staircase light function with dimming function in accordance with DIN 18015-2 (resettable, long-time function)
- Can be controlled by push buttons or switches e.g. for combination with presence detectors or time switch

Product selection

Load detection	Optimized for energy-saving lamps	Light settings	Multi-function	Type	Article number
√	√	–	–	DIMAX 532 plus	5320001
		√	√	DIMAX 534 plus	5340001

Technical data

	DIMAX 532 plus	DIMAX 534 plus
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0,2 W	
Incandescent/halogen lamp load	400 W	
Transformer electronic (C)	300 W	
Transformer inductive (L)	400 W	
Energy saving lamps	Trailing edge: 400 W	
LED lamp	Trailing edge: 400 W	
Ambient temperature	-30 °C ... +50 °C	
Protection class	II	
Type of protection	IP 20	

Accessories



Wall mounting kit 17,5 mm
↳ Art.No.: 9070065
Details page 334

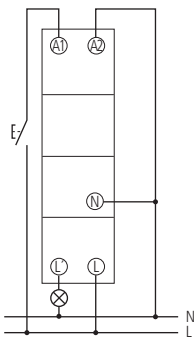


Front panel kit
↳ Art.No.: 9070001
Details page 334

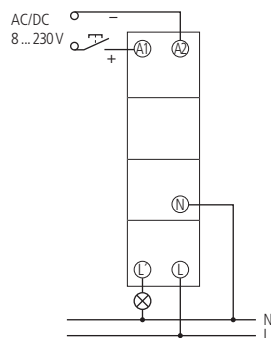


Diode module
for DIMAX 534 plus
↳ Art.No.: 9070367
Details page 342

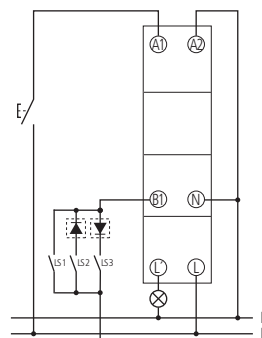
Connection diagrams



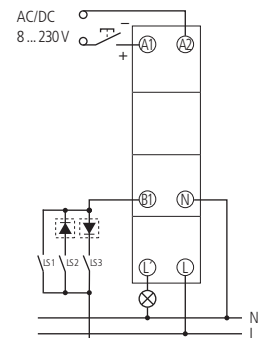
DIMAX 532 plus



DIMAX 532 plus



DIMAX 534 plus



DIMAX 534 plus

Time and light control

Dimmer

5



Description

Common functions

- Universal dimmer for R, L and C loads with automatic load detection

DIMAX 541 plus E

- Push button operation
- Optimised settings for LEDs, incandescent lamps
- Easy installation thanks to a highly compact housing
- Ideal for all dimmable LEDs and halogen lamps
- Memory function saves the most recently set light level value and then dims to this value the next time it is switched on
- Convenient snooze function

DIMAX 542 plus S

- Push button operation, setting via potentiometer
- Adjustable minimum brightness for LEDs
- The universal dimmer is equipped with a „gentle“ lamp-conserving function for switching on and off, automatic detection of the load type, overheating protection against overload as well as short-circuit protection
- Optimised settings for LEDs, incandescent lamps
- Easy installation thanks to a highly compact housing
- Ideal for all dimmable LEDs and halogen lamps
- Memory function saves the most recently set light level value and then dims to this value the next time it is switched on
- Convenient snooze function

DIMAX 544 plus

- Optimised settings for LEDs, incandescent lamps and energy-saving lamps
- Comfort setting with wake-up and snooze function (can be deactivated), e.g. for children's bedrooms
- Up to 2 light scenes
- Settings through easily accessible potentiometer or using a NFC capable smartphone (Near Field Communication)
- Programming is possible via an app, using the app there are advanced features configurable
- Adjustable dimming rate (with automatic functions)
- Special settings can only be set using the app, for double or rocker switch or staircase time switch and alternative dimming curves

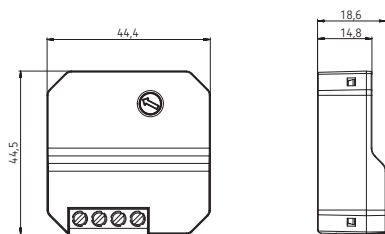
Product selection

Load detection	Optimized for energy-saving lamps/LED	Light settings	Operation via App possible	Type	Article number
✓	✓	-	-	DIMAX 541 plus E	5410130
		-	-	DIMAX 542 plus S	5420130
		✓	✓	DIMAX 544 plus	5440001

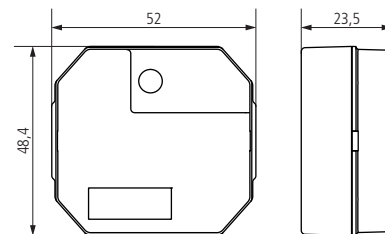
Technical data

	DIMAX 541 plus E	DIMAX 542 plus S	DIMAX 544 plus
Operating voltage	230 V AC		
Frequency	50 Hz		
Stand-by consumption	0,15 W		0,25 W
Incandescent/halogen lamp load	250 W		
Transformer electronic (C)	250 W		
Energy saving lamps	Trailing edge: 200 W		
LED lamp	Trailing edge: 250 W		
Ambient temperature	-25 °C ... +45 °C		
Protection class	-		II
Type of protection	-		IP 20

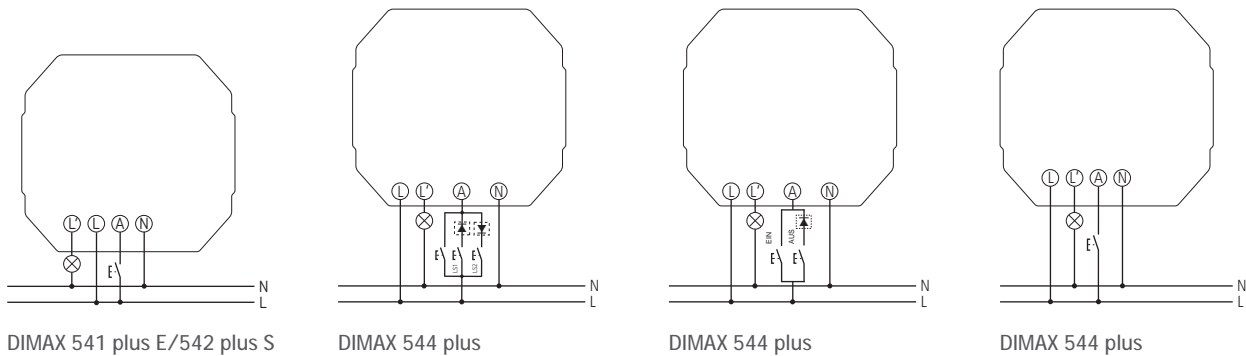
Scale drawings DIMAX 541 plus E/542 plus S



Scale drawings DIMAX 544 plus



Connection diagrams



Accessories DIMAX 544 plus



Diode module










↳ Art.No.: 9070367

Details page 342



The right moment

What we don't consume today is still available to us tomorrow and for our children's generation. Often that doesn't mean having to do without anything. It means only using our resources when we actually need them. Theben contributes to this with a multitude of clever innovations such as twilight switches are one of these. That's what we mean by sustainability.

	Number of channels	Setting range brightness	Switch-on delay	Separate on/off switching delay	External inputs	PC interface	Program	Type of connection	Type	Page
Analogue, DIN rail										
	1	2–2000 lx	20 s	–	–	–	–	Screw terminals	LUNA 108 plus	90
		2–50000 lx	0–20 min	–	–	–	–	DuoFix spring terminals	LUNA 110	90
		2–2000 lx	0–59 min	✓	–	✓	Weekly program	DuoFix spring terminals	LUNA 120 top2	94
Digital without clock, DIN rail										
	1	1–99000 lx	0–59 min	✓	1	✓	–	DuoFix spring terminals	LUNA 111 top2	92
	2	1–99000 lx	0–59 min	✓	2	✓	–	DuoFix spring terminals	LUNA 112 top2	92
Digital, DIN rail										
	1	1–99000 lx	0–59 min	✓	1	✓	Weekly program	DuoFix spring terminals	LUNA 121 top2 RC	94
	2	1–99000 lx	0–59 min	✓	2	✓	Weekly program	DuoFix spring terminals	LUNA 122 top2 RC	94
Analogue, Wall installation or mast bracket										
	1	2–200 lx	20 s	–	–	–	–	Screw terminals	LUNA 126 star E	96
		2–200 lx	2–100 s	–	–	–	–	Screw terminals	LUNA 127 star	96
		2–2000 lx	2–100 s	–	–	–	–	Screw terminals	LUNA 128 star	96
Digital, Wall installation or mast bracket										
	1	2–200 lx	0–10 min	✓	–	–	Daily program	Screw terminals	LUNA 129 star-time	96

Time and light control

Twilight switches



6

Description

Common functions

- Analogue twilight switch
- External light sensor included in delivery
- Display of channel and switching status
- Infinitely adjustable switching brightness

LUNA 108 plus

- Fixed On and Off switching delay

LUNA 110

- Adjustable On and Off switching delay
- DuoFix spring terminals
- Extended brightness levels and adjustable delay
- Five adjustable brightness levels for simple setting of lux value

- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- Permanent OFF and permanent ON function can be set on the potentiometer
- Test function

Product selection

Setting range brightness	Switch-on delay	Type of connection	Operating voltage	Sensor (included)	Type of protection	Type	Article number
2–2000 lx	20 s	Screw terminals	230 V AC	Surface-mounted light sensor	IP 20, sensor IP 66	LUNA 108 plus EL	1080900
				Flush-mounted light sensor	IP 20, sensor IP 55	LUNA 108 plus AL	1080910
2–50000 lx	0–20 min	DuoFix spring terminals	220–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 110 AL	1100100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 110 EL	1100200
			12–24 V UC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 110 AL 24V	1104100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 110 EL 24V	1104200

Technical data

	LUNA 108	LUNA 110	LUNA 110 24V
Operating voltage	230 V AC	220–240 V AC	12–24 V UC
Frequency	50–60 Hz		
Stand-by consumption	0,3 W	1,3 W	0,2 W
Setting range brightness	2–2000 lx	2–50000 lx	
Switch-on delay	20 s	0–20 min	
Type of contact	NO contact	Changeover contact	
Switching output	Potential-free	Potential-free, not for SELV	Potential-free
Width	1 module	2 modules	
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 10 AX (Fluorescent lamp load)	16 A (at 250 V AC, $\cos \varphi = 1$), 16 AX (Fluorescent lamp load)	16 A (at 250 V AC, $\cos \varphi = 1$), 2 AX (Fluorescent lamp load)
Switching capacity min.	–	<10 mA	
Incandescent lamp load	2600 W	3600 W	1400 W
LED lamp < 2 W	30 W	50 W	6 W
LED lamp 2–8 W	350 W	160 W	20 W
LED lamp > 8 W	350 W	200 W	24 W
Energy saving lamps	90 W	270 W	45 W
Fluorescent lamp load (electronic ballast)	–	1000 W	120 W
Test approval	–		–
Ambient temperature	–30 °C ... +55 °C		
Protection class	II, Sensor III		
Max. cable length to sensor	25 m	100 m	

Accessories



Wall mounting kit 17,5 mm
for LUNA 108
↳ Art.No.: 9070065
Details page 334



Wall mounting kit 35 mm
for LUNA 110
↳ Art.No.: 9070064
Details page 334

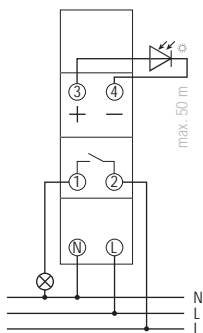


Front panel kit
↳ Art.No.: 9070001
Details page 334

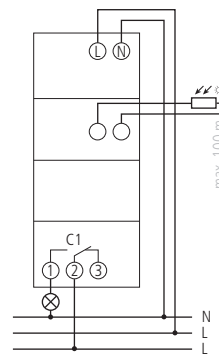
Surface-mounted light sensor
Details page 342

Flush-mounted light sensor
Details page 342

Connection diagrams



LUNA 108 plus



LUNA 110

Time and light control

Twilight switches, Digital without clock, DIN rail



LUNA 111 top2

LUNA 112 top2

6

Description

Common functions

- Light level controller
- External light sensor included in delivery
- Switching brightness digitally adjustable
- Adjustable On and Off switching delay
- Switching brightness and switching delay can be set separately for switching On and Off
- Onscreen display of channel and switching status as well as current lux value
- DuoFix spring terminals
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)

- Up to 4 sensors can be attached
- Up to 10 devices can be connected to a digital sensor
- Interface for OBELISK top2 memory card (PC programming)
- External light sensor included in delivery
- Extended brightness range
- Permanent switching ON/OFF
- Test function
- Switching preselection
- Display back light (can be turned off)
- External input
- Operating hour counter

LUNA 111 top2

- 1 channel
- External control input

LUNA 112 top2

- 2 channels
- 2 external control inputs
- Channel-independent operating hour counter

Product selection

Number of channels	External inputs	Switch-on delay	Sensor (included)	Type of protection	Type	Article number
1	1	0–59 min	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 111 top2 AL	1110100
			Flush-mounted light sensor	IP 20, sensor IP 66 (Front) IP 40 (Back)	LUNA 111 top2 EL	1110200
2	2	0–59 min	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 112 top2 AL	1120100
			Flush-mounted light sensor	IP 20, sensor IP 66 (Front) IP 40 (Back)	LUNA 112 top2 EL	1120200

Time and light control

Twilight switches, Digital without clock, DIN rail

Technical data

	LUNA 111 top2	LUNA 112 top2
Operating voltage	230–240 V AC	100–240 V AC
Frequency	50–60 Hz	
Stand-by consumption	1,7 W	1,3 W
Setting range brightness	1–99000 lx	
Switch-on delay	0–59 min	
Type of contact	Changeover contact	2 changeover contacts
Switching output	Potential-free, not for SELV	
Width	2 modules	3 modules
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 10 A (at 250 V AC, $\cos \varphi = 0.6$), 10 AX (Fluorescent lamp load)	
Switching capacity min.	Approx. 10 mA	
Incandescent lamp load	2600 W	
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	2300 VA	
Fluorescent lamp load (conventional) parallel-corrected	800 VA, 80 μ F	
LED lamp < 2 W	30 W	
LED lamp 2–8 W	100 W	
LED lamp > 8 W	120 W	
Energy saving lamps	170 W	
Fluorescent lamp load (electronic ballast)	650 W	
Test approval		
Ambient temperature	–30 °C ... +55 °C	
Protection class	II, Sensor III	
Max. cable length to sensor	100 m	

Accessories



PC set OBELISK top2/3
↳ Art.No.: 9070409
Details page 335



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335



Front panel kit
↳ Art.No.: 9070001
Details page 334

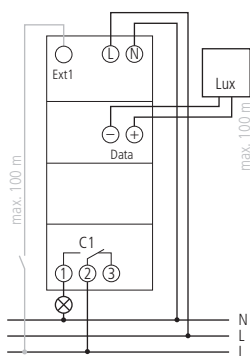
Digital surface-mounted light sensor
Details page 342

Digital flush-mounted light sensor
Details page 342

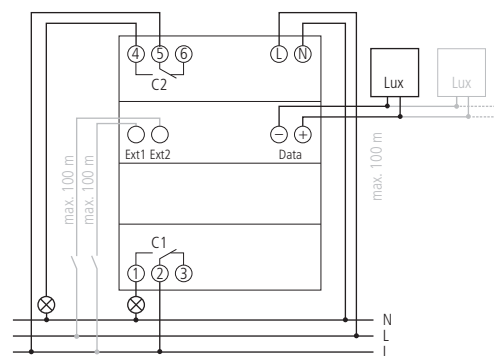
Wall mounting kit 35 mm
Details page 334

Wall mounting kit 52,5 mm
Details page 334

Connection diagrams



LUNA 111 top2



LUNA 112 top2

Time and light control

Twilight switches, Digital, DIN rail, Analogue



LUNA 121 top2 RC

LUNA 122 top2 RC

LUNA 120 top2

6

Description

Common functions

- Twilight switch with integrated weekly timer
- External light sensor included in delivery
- Fixed ON and OFF times (e.g. nighttime interruption)
- Different summer/winter time rules can be selected or freely defined
- Adjustable On and Off switching delay
- Switching brightness and switching delay can be set separately for switching On and Off
- DuoFix spring terminals
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- Interface for OBELISK top2 memory card (PC programming)
- Permanent switching ON/OFF
- Test function
- Switching preselection

- Display back light (can be turned off)
- Variable lux values can be set for each day
- Holiday and public holiday program with yearly function for fixed and public holidays dependent on Easter
- Operating hour counter

LUNA 121 top2 RC

- 1 channel
- 1 special program with yearly function
- DCF77 or GPS radio controlled time via external antenna
- Switching brightness digitally adjustable
- Onscreen display of channel and switching status as well as current lux value
- Up to 4 sensors can be attached
- Up to 10 devices can be connected to a digital sensor
- Extended brightness range
- External input

LUNA 122 top2 RC

- 2 channels
- 2 special programmes with yearly function
- DCF77 radio controlled via external antenna
- 2 external inputs
- Switching brightness digitally adjustable
- Onscreen display of channel and switching status as well as current lux value
- Up to 4 sensors can be attached
- Up to 10 devices can be connected to a digital sensor
- Extended brightness range
- External input

LUNA 120 top2

- Analogue adjustable switching brightness
- Onscreen display of channel and switching status
- 1 channel

Product selection

Number of channels	External inputs	Additional program	Operating voltage	Sensor (included)	Type of protection	Type	Article number
1	1	Extra/Holiday program	230–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 121 top2 RC AL	1210100
				Flush-mounted light sensor	IP 20, sensor IP 66 (Front) IP 40 (Back)	LUNA 121 top2 RC EL	1210200
			12–24 V UC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 121 top2 RC AL 24V	1214100
2	2	Extra/Holiday program	100–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 122 top2 RC AL	1220100
				Flush-mounted light sensor	IP 20, sensor IP 66 (Front) IP 40 (Back)	LUNA 122 top2 RC EL	1220200
1	–	Holiday program	220–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 120 top2 AL	1200100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 120 top2 EL	1200200

Technical data

	LUNA 121 top2 RC	LUNA 121 top2 RC 24V	LUNA 122 top2 RC	LUNA 120 top2
Operating voltage	230–240 V AC	12–24 V UC	100–240 V AC	220–240 V AC
Frequency	50–60 Hz			
Stand-by consumption	1,3 W	0,8 W	1,3 W	
Setting range brightness	1–99000 lx			2–2000 lx
Switch-on delay	0–59 min			
Type of contact	Changeover contact		2 changeover contacts	Changeover contact
Switching output	Potential-free, not for SELV	Potential-free	Potential-free, not for SELV	
Width	2 modules		3 modules	
Switching capacity	16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0.6), 10 AX (Fluorescent lamp load)	16 A (at 250 V AC, cos φ = 1), 2 AX (Fluorescent lamp load)	16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0.6), 10 AX (Fluorescent lamp load)	
Switching capacity min.	Approx. 10 mA			
Incandescent lamp load	2600 W	1400 W	2600 W	
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	2300 VA	1400 VA	2300 VA	
Fluorescent lamp load (conventional) parallel-corrected	800 VA, 80 μF	58 W, 7 μF	800 VA, 80 μF	
LED lamp < 2 W	30 W	6 W	30 W	
LED lamp 2–8 W	100 W	20 W	100 W	
LED lamp > 8 W	120 W	24 W	120 W	
Energy saving lamps	170 W	45 W	170 W	
Fluorescent lamp load (electronic ballast)	650 W	180 W	650 W	
Test approval	⚡	–	⚡	
Ambient temperature	–30 °C ... +55 °C			
Protection class	II, Sensor III			
Max. cable length to sensor	100 m			

Accessories



PC set OBELISK top2/3
↳ Art.No.: 9070409
Details page 335



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335



Antenna top2 RC-DCF
for LUNA 121 top2 RC,
LUNA 122 top2 RC
↳ Art.No.: 9070410
Details page 335

Light sensors
Details page 342

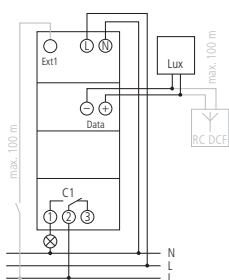
Wall mounting kits
Details page 334

Front panel kit
Details page 334

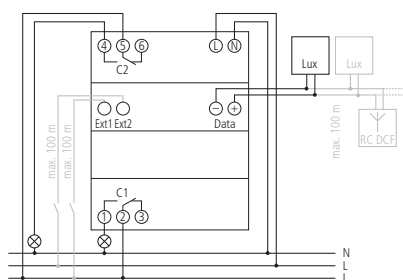
Antenna top2 RC-GPS
Details page 335

Power unit top2 GPS
Details page 335

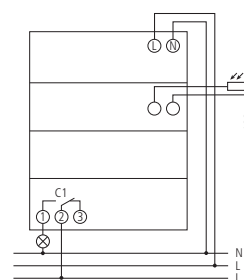
Connection diagrams



LUNA 121 top2 RC



LUNA 122 top2 RC



LUNA 120 top2

Time and light control

Twilight switches, Wall installation or mast bracket



6

LUNA 126 star E



LUNA 127 star

LUNA 129 star-time

Description

Common functions

- Twilight switch with integrated light sensor
- Cable feed from the back and from below
- Captive screws
- Large terminal area
- Brightness value can be set without opening the device
- Large light exposure angle (approx. 180 degrees)

LUNA 126 star E

- Fixed On and Off switching delay
- Infinitely adjustable switching brightness

LUNA 127 star

- Adjustable On and Off switching delay
- Test button
- Infinitely adjustable switching brightness

LUNA 128 star

As LUNA 127 star, but:

- Expanded brightness range
- for monitoring installation independent of set brightness value. The button can be accessed without opening the device

LUNA 129 star-time

- Time function for freely-programmable night switch-off (daily program)
- Adjustable On and Off switching delay
- Easy programming philosophy
- Preset night switch-off (23.00 OFF/5.00 ON), lux values and switch delay
- Automatic summer/winter time correction
- Integrated replaceable lithium battery enables programming before installation
- Switching brightness and switching delay can be set digitally for switching On and Off separately
- Test button
- Time function can be deactivated


Product selection

Setting range brightness	Switch-on delay	Switching capacity at 230 V AC	Time program	Type	Article number
2–200 lx	20 s	16 (6) A AX	–	LUNA 126 star E	1260900
2–200 lx	2–100 s	16 (10) A AX	–	LUNA 127 star	1270700
2–2000 lx	2–100 s	16 (10) A AX	–	LUNA 128 star	1280700
2–200 lx	0–10 min	16 (10) A AX	Daily program	LUNA 129 star-time	1290700

Time and light control

Twilight switches, Wall installation or mast bracket

Technical data

	LUNA 126 star E	LUNA 127 star	LUNA 128 star	LUNA 129 star-time
Operating voltage	230 V AC		220–230 V AC	
Frequency	50–60 Hz			
Stand-by consumption	0,6 W			
Setting range brightness	2–200 lx	2–200 lx	2–2000 lx	2–200 lx
Switch-on delay	20 s	2–100 s		0–10 min
Type of contact	NO contact			
Switching output	Not potential-free (230 V)			
Switching capacity	16 A (at 230 V AC, $\cos \varphi = 1$), 6 AX (at 230 V AC, $\cos \varphi = 0.3$)		16 A (at 230 V AC, $\cos \varphi = 1$), 10 AX (at 230 V AC, $\cos \varphi = 0.3$)	
Incandescent lamp load	2300 W			
Energy saving lamps	90 W			
LED lamp < 2 W	30 W		20 W	
LED lamp > 2 W	350 W		180 W	
Test approval	-			
Ambient temperature	-35 °C ... +55 °C			
Type of protection	IP 55			
Protection class	II			

Accessories

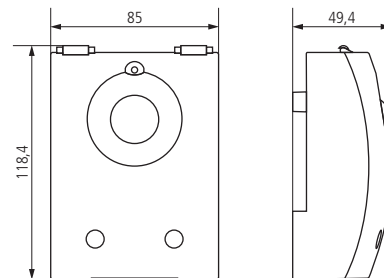


Adapter plate LUNA star

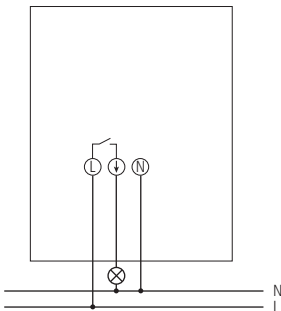
↳ Art.No.: 9070486

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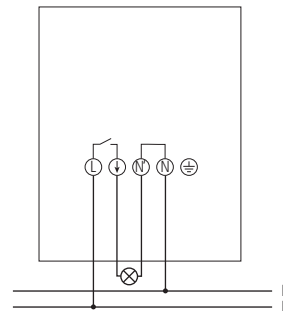
Scale drawings



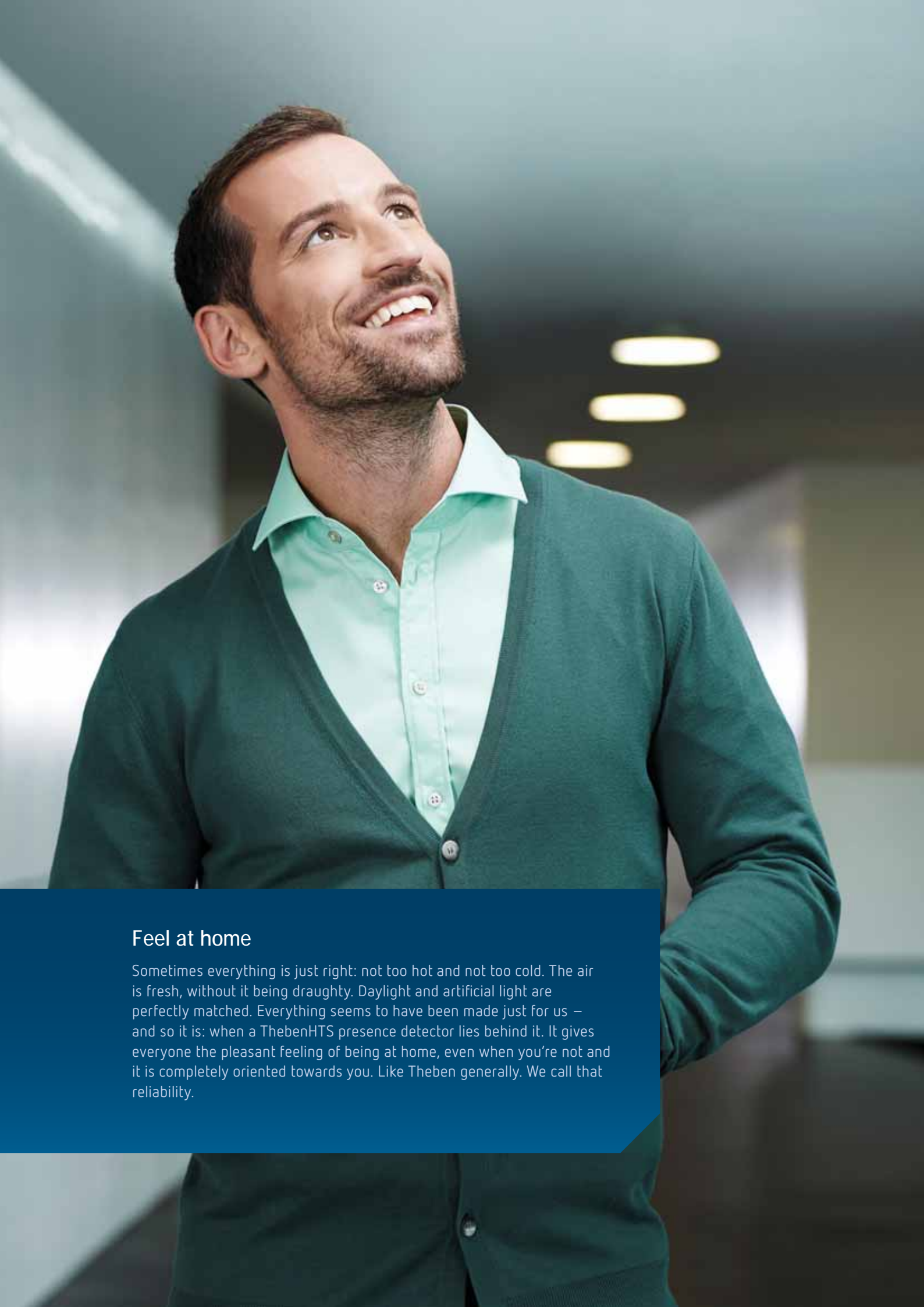
Connection diagrams



LUNA 126 star E, LUNA 127 star, LUNA 128 star



LUNA 129 star-time






Feel at home

Sometimes everything is just right: not too hot and not too cold. The air is fresh, without it being draughty. Daylight and artificial light are perfectly matched. Everything seems to have been made just for us – and so it is: when a ThebenHTS presence detector lies behind it. It gives everyone the pleasant feeling of being at home, even when you're not and it is completely oriented towards you. Like Theben generally. We call that reliability.

Presence and motion detectors

Presence detectors

	Installation type	Detection range - Sitting 3,0 m -	Detection range - Walking 3,0 m -	Channel	Function	Type of protection	Type	Page
230 V AC								
	Ceiling	3 m² (ø 2,0 m 360°)	50 m² (ø 8 m 360°)	Light	Switching	IP 44	thePiccola P360-100 DE	100
		28 m² (ø 6,0 m 360°)	452 m² (ø 24 m 360°)	Light Presence	Switching	IP 40	SPHINX 104-360/2 DIMplus	102
		3 m² (ø 4,0 m 360°)	50 m² (ø 8 m 360°)	Light	Switching	IP 54	theRonda S360-100 UP	110
				Light Presence	Switching	IP 54	theRonda S360-101 UP	110
				Light	Switching	IP 54	theRonda S360-100 DE	104
				Light Presence	Switching	IP 54	theRonda S360-101 DE	104
				Light	Switching	IP 54	theRonda S360-100 AP	108
				Light Presence	Switching	IP 54	theRonda S360-101 AP	108
				Light	Switching	IP 54	theRonda S360-100 GST	106
		50 m² (ø 8,0 m 360°)	452 m² (ø 24 m 360°)	Light	Switching	IP 54	theRonda P360-100 M	112
				Light Presence	Switching	IP 54	theRonda P360-101 M	112
				Light	Switching	IP 54	theRonda P360-100 GST	114
		20 m² (4,5 x 4,5 m)	49 m² (7,0 x 7,0 m)	Light 1 – 10 V	Dimming	IP 40	compact office DIM	116
		90 m² (20 x 4,5 m)	135 m² (30,0 x 4,5 m)	Light Presence	Switching	IP 54	thePassa P360-101 UP	118
		25 m² (5,0 x 5,0 m)	49 m² (7,0 x 7,0 m)	Light	Switching	IP 40	thePrema S360-100 E	120
				Light Presence	Switching	IP 40	thePrema S360-101 E	120
				Light Presence	Switching	IP 40	thePrema P360-101 E	122
		49 m² (7,0 x 7,0 m)	81 m² (9,0 x 9,0 m)	Light Presence	Switching	IP 40	PlanoCentro 101-EWH/UWH	124
				3 x Light	Switching	IP 40	PlanoCentro 300-EWH/UWH	126
				2 x Light 1 x Presence	Switching	IP 40	PlanoCentro 201-EWH/UWH	126
	Wall	28 m² (ø 7,0 m 180°)	100 m² (ø 16 m 180°)	Light	Switching	IP 54	PresenceLight 180	130
DALI								
	Ceiling	25 m² (5,0 x 5,0 m)	49 m² (7,0 x 7,0 m)	1 channel Broadcast	DALI	IP 40	thePrema S360 DALI	132
		50 m² (ø 8,0 m 360°)	452 m² (ø 24 m 360°)	3 channels addressable	DALI	IP 54	theRonda P360-330 DALI	134
				1 channel Broadcast	DALI	IP 54	theRonda P360-110 DALI	134
		13 m² (ø 4 m 360°)	50 m² (ø 8 m 360°)	1 channel Broadcast	DALI	IP 54	theRonda S360-110 DALI	134
		90 m² (20 x 4,5 m)	135 m² (30,0 x 4,5 m)	2 channels	DALI	IP 54	thePassa P360-221 DALI	136
		20 m² (4,5 x 4,5 m)	49 m² (7,0 x 7,0 m)	-	-	IP 20	PlanoSpot 360 DALI	138
LON								
	Ceiling	20 m² (4,5 x 4,5 m)	49 m² (7,0 x 7,0 m)	2 x Light 3 x Occupancy	LON	IP 40	PresenceLight 360 PLLON	140
		49 m² (7,0 x 7,0 m)	81 m² (9,0 x 9,0 m)	3 x Light 3 x Occupancy	LON	IP 40	PlanoCentro E PCLON	142
							PlanoCentro U PCLON	142
		20 m² (4,5 x 4,5 m)	49 m² (7,0 x 7,0 m)	3 x Light 3 x Occupancy	LON	IP 20	PlanoSpot 360 PSLON	144
	Wall	28 m² (ø 7,0 m 180°)	100 m² (ø 16 m 180°)	2 x Light 3 x Occupancy	LON	IP 40	PresenceLight 180 PLLON	146

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infra-red presence detector for ceiling installation
- Circular detection area 360°, up to Ø 8 m (50 m²)
- Automatic presence- and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Choice of fully or semi-automatic operation
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Test mode for checking function and detection area
- Connection option for sensor for manual switching
- Extension of detection area via Master/ Slave switching
- Ready for immediate use due to factory presetting
- Diameter of ceiling cutout 34–36 mm
- Remote controllable with optionally remote controls theSenda B, theSenda P and theSenda S

7

Product selection

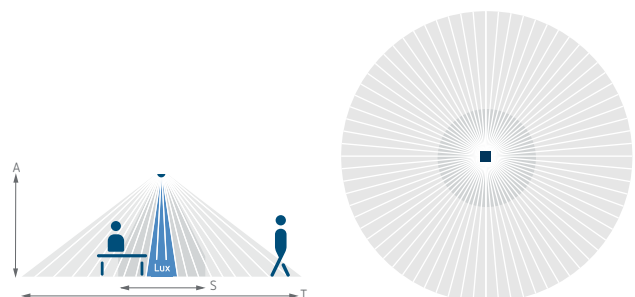
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110–240 V AC	White	thePiccola P360-100 DE WH	2090200

Technical data

thePiccola P360-100 DE WH			
Operating voltage	110–240 V AC	Fluorescent lamp load (conventional) series-corrected	2000 VA
Frequency	50–60 Hz	Fluorescent lamp load (electronic ballast)	1200 W
Installation height	2–4 m	LED lamp < 2 W	55 W
Power consumption	0,4 W	LED lamp 2–8 W	180 W
Setting range brightness	5–1000 lx	LED lamp > 8 W	200 W
Light switch-off delay	30 s–30 min	Ambient temperature	–20 °C ... +50 °C
Incandescent/ halogen lamp load	2000 W	Type of protection	IP 44 (Sensor), IP 20 (power module) (when mounted)
Fluorescent lamp load (conventional) not corrected	2000 VA		
Fluorescent lamp load (conventional) parallel-corrected	1300 VA, 140 µF		

Detection range (Round)

Mounting height (A)	Sitting (S)	Head on to (r)	Diagonally (T)
2,5 m	3 m ² 2 m	3 m ² 2 m	50 m ² 8 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

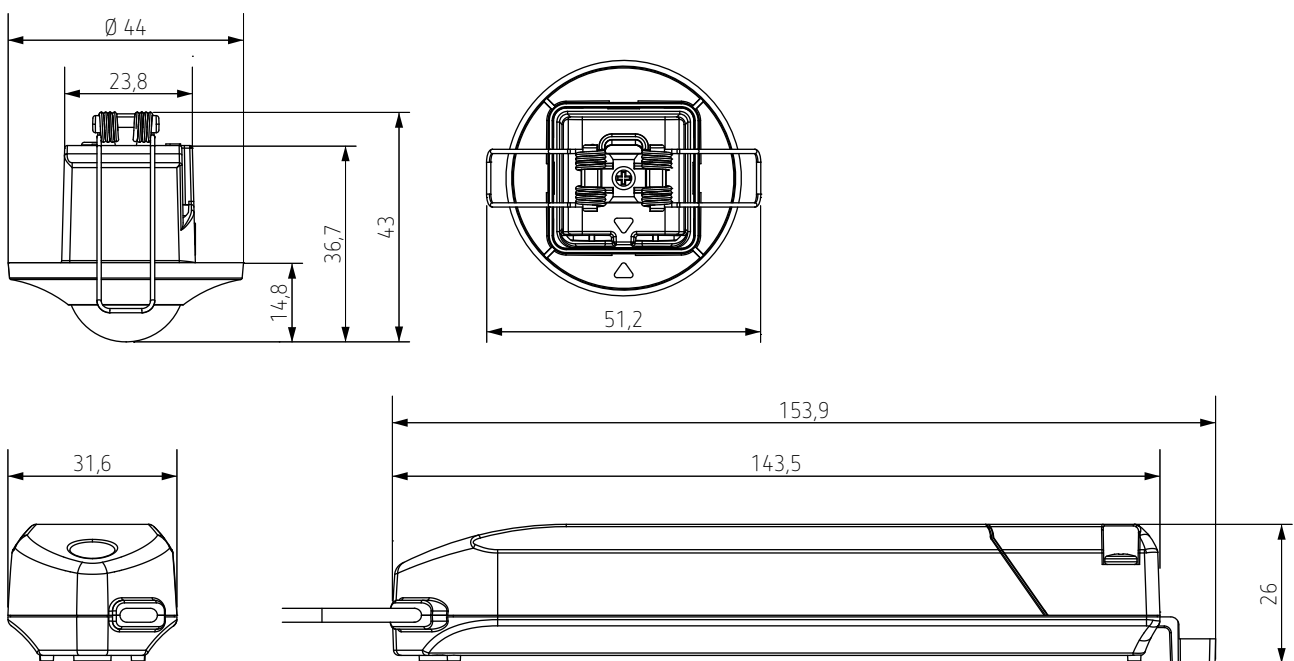


theSenda P
↳ Art.No.: 9070910
Details page 341



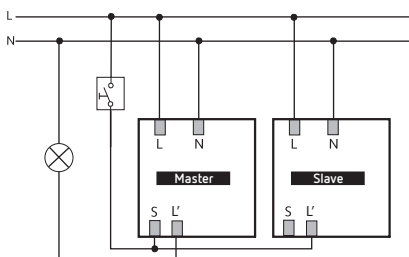
theSenda S
↳ Art.No.: 9070911
Details page 341

Scale drawings

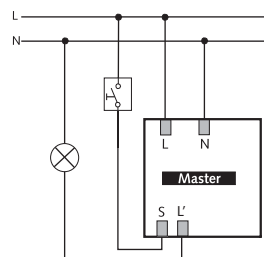


7

Connection diagrams



thePiccola P360-100 DE WH



thePiccola P360-100 DE WH

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- 2 channels for application areas class and conference rooms
- Flush-mounted installation
- Channel 2 presence dependent, e.g. for blackboard lighting with programmable switch-off delay or for HVAC control
- Channel 1 for constant light control (1–10 V)
- Lighting control with adjustable light threshold value and adjustable switch-off delay
- Additional pulse function can be selected for combination with staircase timer (ELPA), building automation or PLC
- Test function for checking detection area
- Zero-cross switching
- Automatic lighting control based on presence and brightness
- Detection area can be limited using three enclosed segments
- Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
- Instant start-up possible via factory preset
- Push-button or for manual switching
- Fully or semi-automatic: In „Fully automatic“ mode, the lighting switches on and off automatically according to presence and light In „Semi-automatic“ mode, it must be switched on manually and it switches off automatically

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Ceiling installation	Light Presence	360°	Pure white (similar to RAL 9010)	SPHINX 104-360/2 DIMplus	1040374

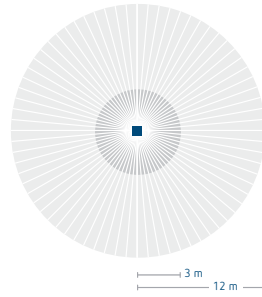
7

Technical data

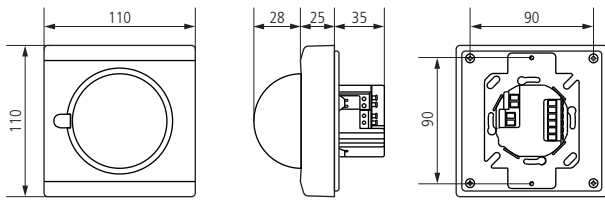
SPHINX 104-360/2 DIMplus			
Operating voltage	230 V AC	Fluorescent lamp load (conventional) not corrected	900 VA
Frequency	50–60 Hz	Fluorescent lamp load (conventional) not corrected (channel presence)	200 VA
Stand-by consumption	1 W	Fluorescent lamp load (conventional) series-corrected	900 VA
Setting range brightness	5–2000 lx	Fluorescent lamp load (conventional) series-corrected (channel presence)	200 VA
Switching capacity light	4 A (at 230 V AC, $\cos \varphi = 1$)	Fluorescent lamp load (electronic ballast) (channel presence)	60 VA
Switching capacity presence	2 A ($\cos \varphi = 1$) μ , 250 V AC/30 V DC	Energy saving lamps	4 x 7 W, 3 x 11 W, 3 x 15 W, 3 x 20 W, 3 x 23 W
Detection angle	360°	Energy saving lamps (channel presence)	2 x 7 W, 2 x 11 W, 1 x 15 W, 1 x 20 W, 1 x 23 W
Installation height	2,5–3,5 m	LED lamp < 2 W	25 W
Switching output	Not potential-free (230 V)	LED lamp > 2 W	90 W
Switching output channel presence	Potential-free	Ambient temperature	-10 °C ... +55 °C
Light switch-off delay	1 s–20 min	Protection class	II
Presence switch-off delay	1–120 min	Type of protection	IP 40 (when fitted)
Incandescent lamp load	1000 W		
Incandescent lamp load (channel presence)	400 W		

Detection range (Round)

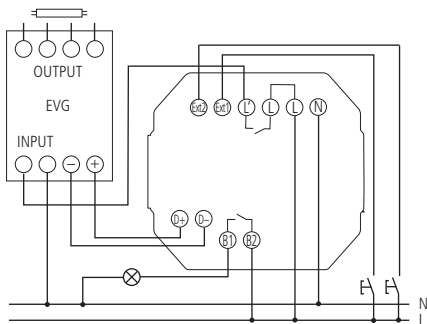
Mounting height	Sitting	Walking diagonally	Walking head on to
2 m	4 m	18 m	9 m
2,5 m	6 m	24 m	12 m
3 m	6 m	24 m	12 m
3,5 m	8 m	26 m	13 m
4 m	6 m	24 m	12 m



Scale drawings



Connection diagrams



Accessories



RC filter
↳ Art.No.: 9070523
Details page 338

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infra-red presence detector for ceiling installation
- Circular detection area 360°, up to Ø 9 m (64 m²)
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Detection sensitivity configurable
- Test mode for checking function and detection area
- Ready for immediate use due to factory presetting (Brightness switching value 300 lux, Time delay 10 min)
- One of these optional remote controls is required for changing the values and attitudes:
 - Management remote control theSenda B
 - Installation remote control theSenda P
 - Optional user remote control: theSenda S
- theRonda S360-100 DE
- Automatic motion and brightness-dependent control for lighting
- theRonda S360-101 DE
- Automatic motion and brightness-dependent control for lighting and HVAC
- Channel H, presence: relay, floating e.g. for HVAC control

7

Product selection

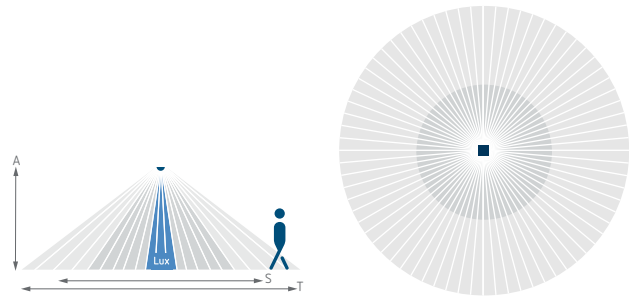
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	White	theRonda S360-100 DE WH	2080560
			Grey	theRonda S360-100 DE GR	2080561
	Light Presence	230 V AC	White	theRonda S360-101 DE WH	2080565
			Grey	theRonda S360-101 DE GR	2080566

Technical data

	theRonda S360-100 DE	theRonda S360-101 DE
Operating voltage	230 V AC	
Frequency	50 Hz	
Installation height	2–4 m	
Minimum height	> 1,7 m	
Setting range brightness	30–3000 lx	
Light switch-off delay	10 s–60 min	
Incandescent/halogen lamp load	2300 W	
Inrush current	max. 400 A/200 µs	
LED lamp < 2 W	25 W	
LED lamp 2–8 W	70 W	
LED lamp > 8 W	80 W	
Switching capacity presence	–	50 W/50 VA, max. 2 A
Ambient temperature	–15 °C ... +50 °C	
Type of protection	IP 54 (when fitted)	

Detection range (Round)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	38 m ² 7 m	5 m ² 2,5 m
2,5 m	38 m ² 7 m	7 m ² 3 m
3 m	50 m ² 8 m	13 m ² 4 m
3,5 m	50 m ² 8 m	–
4 m	64 m ² 9 m	–



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

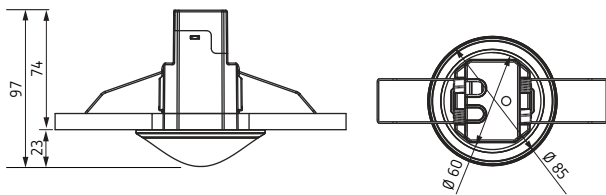


theSenda P
↳ Art.No.: 9070910
Details page 341

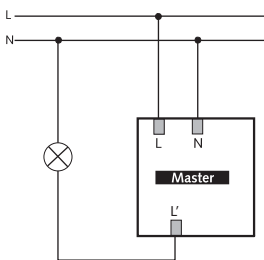


theSenda S
↳ Art.No.: 9070911
Details page 341

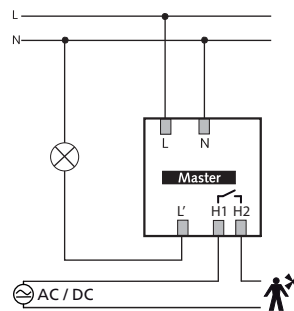
Scale drawings



Connection diagrams



theRonda S360-100 DE



theRonda S360-101 DE

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infra-red presence detector for ceiling installation
- Circular detection area 360°, up to Ø 9 m (64 m²)
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Detection sensitivity configurable
- Test mode for checking function and detection area
- Ready for immediate use due to factory presetting (Brightness switching value 300 lux, Time delay 10 min)
- One of these optional remote controls is required for changing the values and attitudes:
 - Management remote control theSenda B
 - Installation remote control theSenda P
 - Optional user remote control: theSenda S
- theRonda S360-100 AP
- Automatic motion and brightness-dependent control for lighting
- theRonda S360-101 AP
- Automatic motion and brightness-dependent control for lighting and HVAC
- Channel H, presence: relay, floating e.g. for HVAC control

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	White	theRonda S360-100 AP WH	2080550
			Grey	theRonda S360-100 AP GR	2080551
	Light Presence	230 V AC	White	theRonda S360-101 AP WH	2080555
			Grey	theRonda S360-101 AP GR	2080556

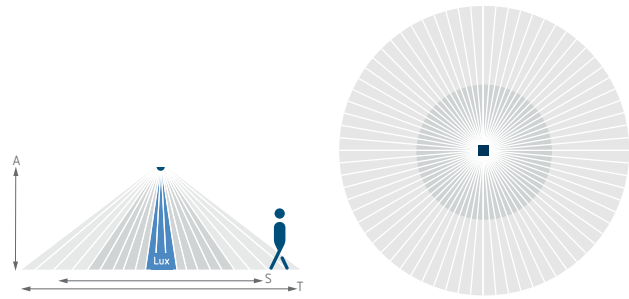
Technical data

	theRonda S360-100 AP	theRonda S360-101 AP
Operating voltage	230 V AC	
Frequency	50 Hz	
Installation height	2 – 4 m	
Minimum height	> 1,7 m	
Setting range brightness	30 – 3000 lx	
Light switch-off delay	10 s – 60 min	
Incandescent/halogen lamp load	2300 W	
Inrush current	max. 400 A/200 µs	
LED lamp < 2 W	25 W	
LED lamp 2 – 8 W	70 W	
LED lamp > 8 W	80 W	
Switching capacity presence	-	50 W/50 VA, max. 2 A
Ambient temperature	-15 °C ... +50 °C	
Type of protection	IP 54	

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Detection range (Round)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	38 m ² 7 m	5 m ² 2,5 m
2,5 m	38 m ² 7 m	7 m ² 3 m
3 m	50 m ² 8 m	13 m ² 4 m
3,5 m	50 m ² 8 m	–
4 m	64 m ² 9 m	–



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

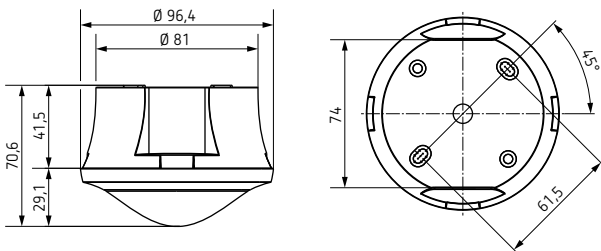


theSenda P
↳ Art.No.: 9070910
Details page 341

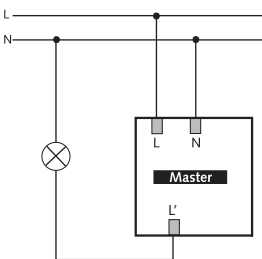


theSenda S
↳ Art.No.: 9070911
Details page 341

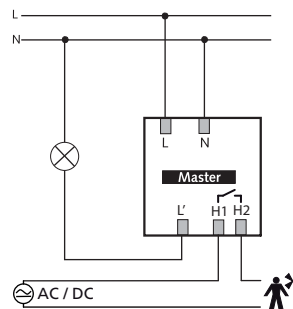
Scale drawings



Connection diagrams



theRonda S360-100 AP



theRonda S360-101 AP

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR), with pre-configured cable and Wieland GSTi18 connector, cable length 1.50 meter
- Circular detection area 360°, up to Ø 9 m (64 m²)
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Detection sensitivity configurable
- Test mode for checking function and detection area
- Ready for immediate use due to factory presetting (Brightness switching value 300 lux, Time delay 10 min)
- One of these optional remote controls is required for changing the values and attitudes:
 - Management remote control theSenda B
 - Installation remote control theSenda P
 - Optional user remote control: theSenda S

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	White	theRonda S360-100 WH GST	2080570

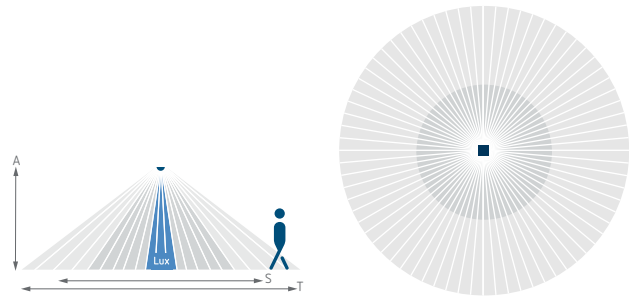
Technical data

	theRonda S360-100 WH GST
Operating voltage	230 V AC
Frequency	50 Hz
Installation height	2 – 4 m
Minimum height	> 1,7 m
Setting range brightness	30 – 3000 lx
Light switch-off delay	10 s – 60 min
Incandescent/ halogen lamp load	2300 W
Inrush current	max. 400 A/200 µs
LED lamp < 2 W	25 W
LED lamp 2 – 8 W	70 W
LED lamp > 8 W	80 W
Ambient temperature	- 15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

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Detection range (Round)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	38 m ² 7 m	5 m ² 2,5 m
2,5 m	38 m ² 7 m	7 m ² 3 m
3 m	50 m ² 8 m	13 m ² 4 m
3,5 m	50 m ² 8 m	–
4 m	64 m ² 9 m	–



Accessories



theSenda B
↳ Art.No.: 9070985
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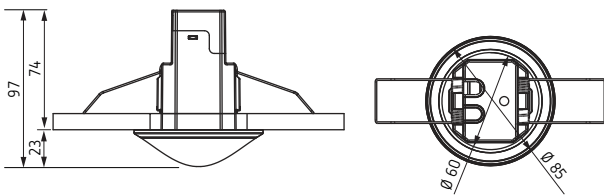


theSenda P
↳ Art.No.: 9070910
Details page 341

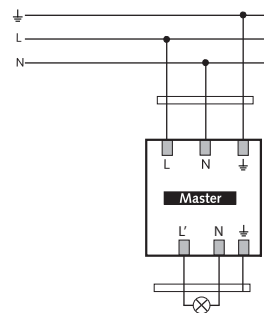


theSenda S
↳ Art.No.: 9070911
Details page 341

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infrared presence detector for ceiling mounting
 - Round detection area 360°, up to Ø 9 m (64 m²)
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Channel A, light: relay, 230V
 - Choice of fully or semi-automatic operation
 - Adjustable brightness switching value, teach-in function
 - Reduction of switch-off delay time in the event of short presence (brief-presence)
 - Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
 - Pulse function for staircase light time switch
 - Switch-on delay and switch-off delay configurable
 - Sensitivity adjustable
 - Detection area can be limited using cover clip
 - Ready for immediate use due to factory preset
 - An optional remote control is required for changing the values and attitudes
 - Test mode for checking function and detection area
 - Ceiling installation in flush-mounted socket
 - Ceiling installation also possible with surface-mounted frame
 - User remote control theSenda S, service remote control theSenda P, management remote control theSenda B (optional)
- theRonda S360-100 UP
- Automatic presence- and brightness-dependent control for lighting
- theRonda S360-101 UP
- Automatic presence- and brightness-dependent control for lighting and HVAC
 - Channel H, presence: relay, floating
 - e.g. for HVAC control
 - Switch-on delay and switch-off delay configurable
 - Extension of detection area via Master/ Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
- theRonda S360 Slave UP
- Slave version for theRonda S360-101 UP
 - Just to be used with theRonda S360-101 UP as Master

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110–230 V AC	White	theRonda S360-100 UP WH	2080520
			Grey	theRonda S360-100 UP GR	2080521
	Light Presence	110–230 V AC	White	theRonda S360-101 UP WH	2080525
			Grey	theRonda S360-101 UP GR	2080526
	Slave	110–230 V AC	White	theRonda S360 Slave UP WH	2080530
			Grey	theRonda S360 Slave UP GR	2080531

Technical data

	theRonda S360-100 UP	theRonda S360-101 UP	theRonda S360 Slave UP
Operating voltage	110–230 V AC		
Frequency	50–60 Hz		
Installation height	2–4 m		
Minimum height	> 1,7 m		
Power consumption	0,1 W		
Setting range brightness	30–3000 lx		–
Incandescent/halogen lamp load	2300 W		–
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)		–
Inrush current	max. 800 A/200 μs		–
LED lamp < 2 W	60 W		–

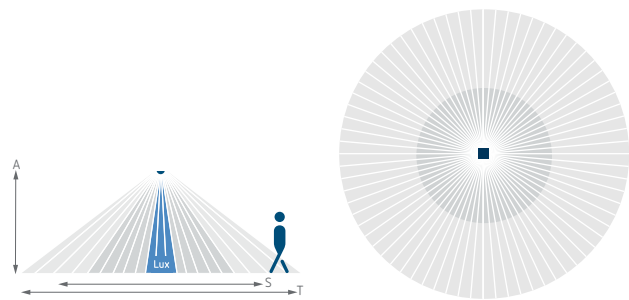
Presence and motion detectors

Presence detectors, 230 V AC

	theRonda S360-100 UP	theRonda S360-101 UP	theRonda S360 Slave UP
LED lamp 2–8 W	180 W		–
LED lamp > 8 W	200 W		–
Switch-on delay presence	–	0 s–10 min/Room surveillance	–
Presence switch-off delay	–	10 s–120 min	–
Switching capacity presence	–	50 W/50 VA	–
Size of concealed housing	Ø 55 mm (NIS, PMI)		
Ambient temperature	–15 °C ... +50 °C		
Type of protection	IP 54 (when fitted)		

Detection range (Round)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	38 m ² 7 m	5 m ² 2,5 m
2,5 m	38 m ² 7 m	7 m ² 3 m
3 m	50 m ² 8 m	13 m ² 4 m
3,5 m	50 m ² 8 m	–
4 m	64 m ² 9 m	–



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Accessories



theSenda B
↳ Art.No.: 9070985
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theSenda P
↳ Art.No.: 9070910
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theSenda S
↳ Art.No.: 9070911
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QuickSafe
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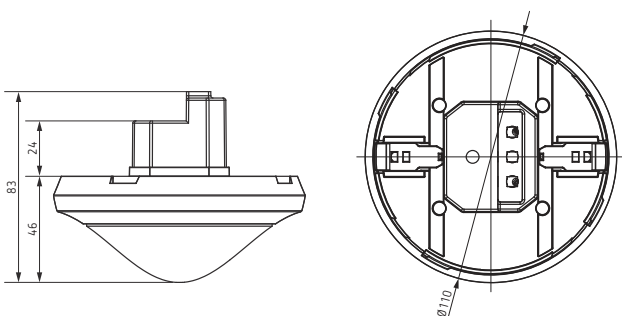
Surface frame 110A WH
Details page 337

Surface frame 110A GR
Details page 337

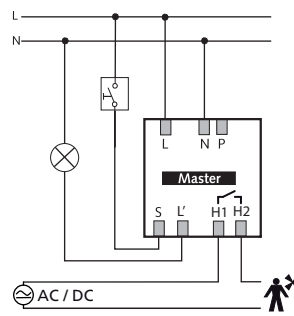
Ceiling installation box 73A
Details page 337

Masking clip
Details page 337

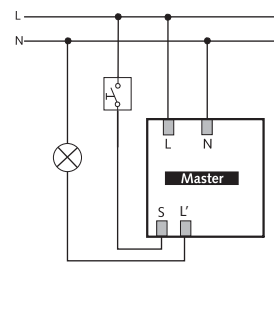
Scale drawings



Connection diagrams



theRonda S360-101 UP



theRonda S360-100 UP

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infrared presence detector for ceiling mounting
 - Round detection area 360°, up to Ø 24 m (452 m²)
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Channel A, light: relay, 230V
 - Choice of fully or semi-automatic operation
 - Adjustable brightness switching value, teach-in function
 - Reduction of switch-off delay time in the event of short presence (brief-presence)
 - Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
 - Pulse function for staircase light time switch
 - Switch-on delay and switch-off delay configurable
 - Sensitivity adjustable
 - Detection area can be limited using cover clip
 - Ready for immediate use due to factory preset
 - Test mode for checking function and detection area
 - Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
 - Ceiling installation in flush-mounted socket
 - Ceiling installation also possible with surface-mounted frame
 - User remote control theSenda S, management remote control theSenda B (optional)
- theRonda P360-100 M
- Automatic presence- and brightness-dependent control for lighting
- theRonda P360-101 M
- Automatic presence- and brightness-dependent control for lighting and HVAC
 - Channel H, presence: relay, floating
 - e.g. for HVAC control
- theRonda P360 Slave
- Slave version for theRonda P360 M
 - Just to be used with theRonda P360 M as Master

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Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110–230 V AC	White	theRonda P360-100 M UP WH	2080020
			Grey	theRonda P360-100 M UP GR	2080021
	Light Presence	110–230 V AC	White	theRonda P360-101 M UP WH	2080025
			Grey	theRonda P360-101 M UP GR	2080026
Slave	110–230 V AC	White	theRonda P360 Slave UP WH	2080030	
		Grey	theRonda P360 Slave UP GR	2080031	

Technical data

	theRonda P360-100 M UP	theRonda P360-101 M UP	theRonda P360 Slave UP
Operating voltage	110–230 V AC		
Frequency	50–60 Hz		
Installation height	2–10 m		
Minimum height	> 1,7 m		
Power consumption	0,15 W		
Setting range brightness	30–3000 lx		–
Light switch-off delay	10 s–60 min		–
Incandescent/halogen lamp load	2300 W		–
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)		–
Inrush current	max. 800 A/200 μs		–
LED lamp < 2 W	60 W		–
LED lamp 2–8 W	180 W		–

Presence and motion detectors

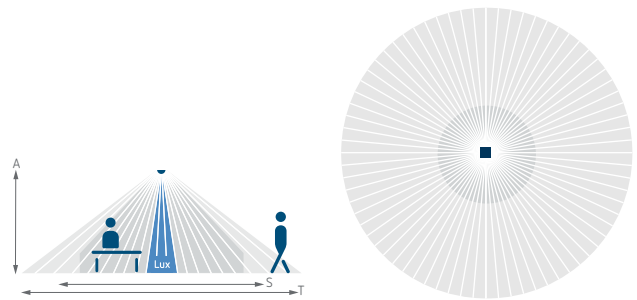
Presence detectors, 230 V AC

	theRonda P360-100 M UP	theRonda P360-101 M UP	theRonda P360 Slave UP
LED lamp > 8 W	200 W		–
Switch-on delay presence	–	0 s – 10 min	–
Presence switch-off delay	–	10 s – 120 min	–
Switching capacity presence	–	50 W / 50 VA	–
Size of concealed housing	Ø 55 mm (NIS, PMI)		
Ambient temperature	–15 °C ... +50 °C		
Type of protection	IP 54 (when fitted)		

Detection range (Round)

Mounting height (A)	Sitting (S)	Walking diagonally (T)	Walking head on to
2 m	16 m² 4,5 m	380 m² 22 m	28 m² 6 m
2,5 m	24 m² 5,5 m	415 m² 23 m	38 m² 7 m
3 m	28 m² 6 m	452 m² 24 m	50 m² 8 m
3,5 m	38 m² 7 m	452 m² 24 m	50 m² 8 m
6 m	–	452 m² 24 m	50 m² 8 m
10 m	–	491 m² 25 m	50 m² 8 m

With a mounting height of more than 3.5 m walking motions are necessary and the detection areas of several detectors should overlap in the marginal zone. All figures are up to values. The detection range decreases with increasing temperatures.



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Accessories



theSenda B

↳ Art.No.: 9070985
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theSenda P

↳ Art.No.: 9070910
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theSenda S

↳ Art.No.: 9070911
Details page 341

QuickSafe

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Surface frame 110A WH

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Surface frame 110A GR

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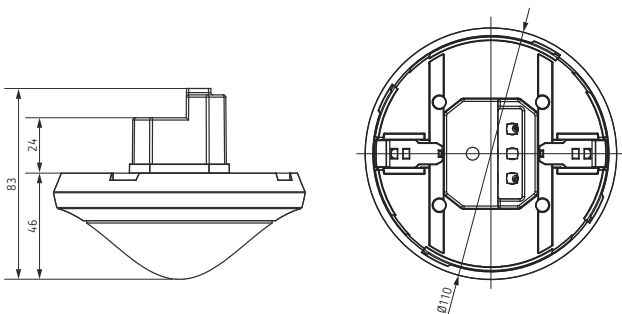
Ceiling installation box 73A

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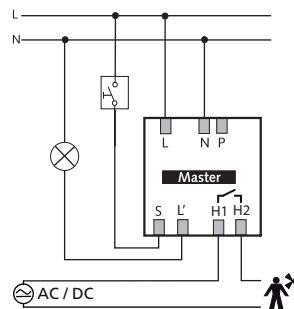
Masking clip

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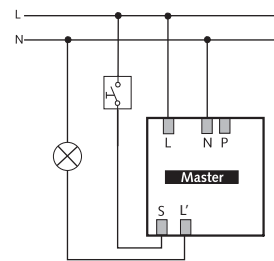
Scale drawings



Connection diagrams



theRonda P360-101 M UP



theRonda P360-100 M UP

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR), with pre-configured cable and Wieland GSTi18 connector, cable length 1.50 meter
- Round detection area 360°, up to Ø 24 m (452 m²)
- Automatic presence- and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A, light: relay, 230 V
- Choice of fully or semi-automatic operation
- Adjustable brightness switching value, teach-in function
- Reduction of switch-off delay time in the event of short presence (brief-presence)
- Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
- Pulse function for staircase light time switch
- Sensitivity adjustable
- Detection area can be limited using cover clip
- Ready for immediate use due to factory preset
- Test mode for checking function and detection area
- Ceiling installation in flush-mounted socket
- Ceiling installation also possible with surface-mounted frame
- User remote control theSenda S, management remote control theSenda B (optional)

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110–230 V AC	White	theRonda P360-100 WH GST	2080010

Technical data

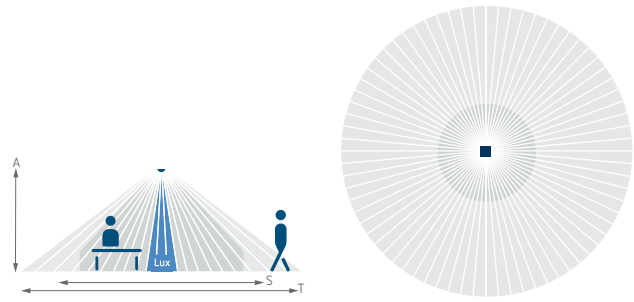
	theRonda P360-100 WH GST
Operating voltage	110–230 V AC
Frequency	50–60 Hz
Installation height	2–10 m
Minimum height	> 1,7 m
Power consumption	0,15 W
Setting range brightness	30–3000 lx
Light switch-off delay	10 s–60 min
Incandescent/halogen lamp load	2300 W
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)
LED lamp < 2 W	60 W
LED lamp 2–8 W	180 W
LED lamp > 8 W	200 W
Ambient temperature	–15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

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Detection range (Round)

Mounting height (A)	Sitting (S)	Walking diagonally (T)	Walking head on to
2 m	16 m ² 4,5 m	380 m ² 22 m	28 m ² 6 m
2,5 m	24 m ² 5,5 m	415 m ² 23 m	38 m ² 7 m
3 m	28 m ² 6 m	452 m ² 24 m	50 m ² 8 m
3,5 m	38 m ² 7 m	452 m ² 24 m	50 m ² 8 m
6 m	–	452 m ² 24 m	50 m ² 8 m
10 m	–	491 m ² 25 m	50 m ² 8 m

With a mounting height of more than 3.5 m walking motions are necessary and the detection areas of several detectors should overlap in the marginal zone. All figures are up to values. The detection range decreases with increasing temperatures.



Accessories



theSenda B

↳ Art.No.: 9070985
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theSenda P

↳ Art.No.: 9070910
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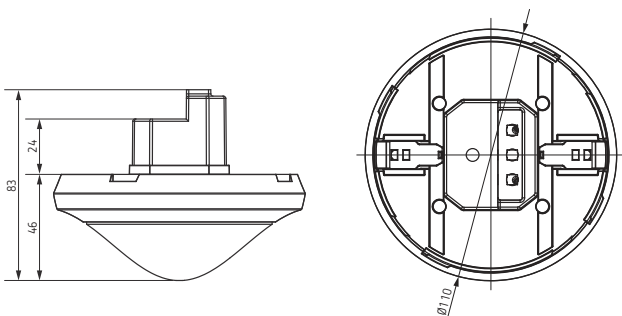
theSenda S

↳ Art.No.: 9070911
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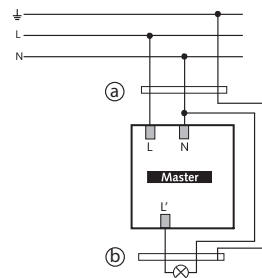
Masking clip
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Scale drawings

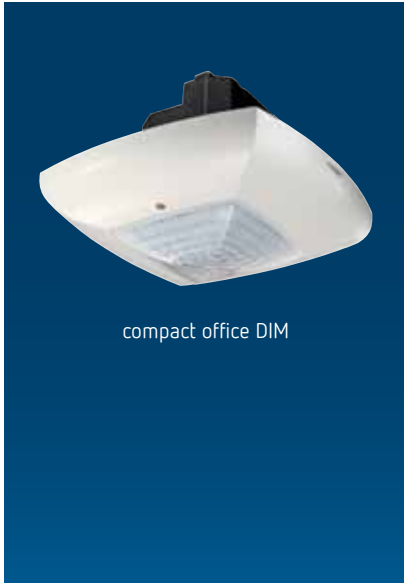


Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Square detection area allows accurate and simple planning
- Light switching output (relay, 230 V) and 1–10 V interface
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold, self-learning switch-off delay and stand-by time adjustable
- The stand-by time guarantees a minimum brightness and provides for a sense of security in hospital and care environments as the lighting does not switch off when areas are unoccupied but remains in stand-by mode for the set time
- Choice of fully or semi automatic operation: In „Semi-automatic“ (absence detection) mode the light must be switched on manually and switches off automatically
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

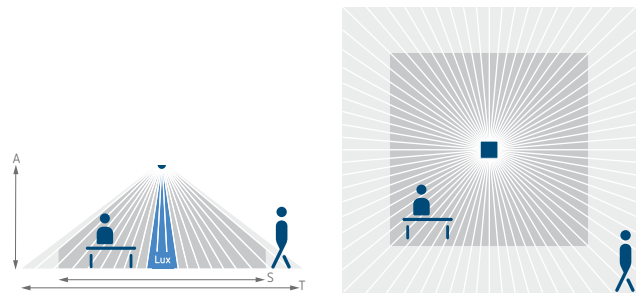
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light 1–10 V	230 V AC	Pure white (similar to RAL 9010)	compact office DIM	2010001

Technical data

	compact office DIM
Operating voltage	230 V AC
Frequency	50 Hz
Installation height	2–3,5 m
Power consumption	0,8 W
Setting range brightness	Approx. 10–1500 lx/on
Light switch-off delay	10 s–20 min
Stand-by time light	0 s–60 min/on
Stand-by brightness	10 %
Type of contact light	Relay 230 V
Resistive load	1400 VA
Incandescent/halogen lamp load	1200 W
Compact and fluorescent lamps	960 VA (cos φ = 0,8), 580 VA (cos φ = 0,5)
Compact and fluorescent lamps (max. number of electronic ballasts)	10 x (1 x 54/58 W), 5 x (2 x 54/58 W), 16 x (1 x 35/36 W), 8 x (2 x 35/36 W), 16 x (smaller than 35/36 W)
Control output	1–10 V DC/100 mA as per EN 60929/A1
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4,5 m x 4,5 m ± 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m ± 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4,5 m x 4,5 m
3,5 m	64 m ² 8 m x 8 m ± 1 m	-



Accessories

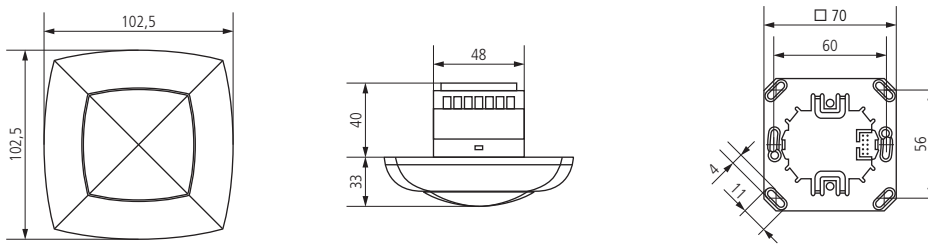


Ceiling installation box 73A
Details page 337

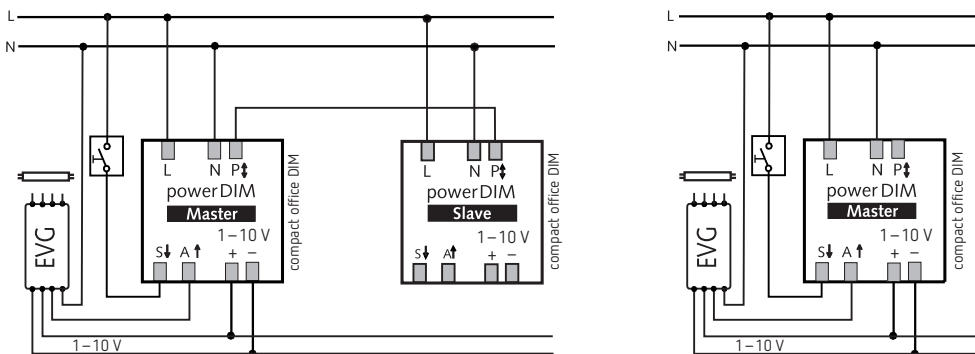
QuickSafe
Details page 338

Surface frame compact
↳ Art.No.: 9070514
Details page 336

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infrared presence detector for ceiling mounting
 - Square detection area for corridors and storage areas
 - Detection area with 2 individually connectable and disconnectable detection zones, each 15 x 5 m (total 30 x 5 m)
 - Automatic presence- and brightness-dependent control for lighting and HVAC
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Channel A, light: relay, 230V
 - Choice of fully or semi-automatic operation
 - Adjustable brightness switching value, teach-in function
 - Reduction of switch-off delay time in the event of short presence (brief-presence)
 - Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
 - Pulse function for staircase light time switch
 - Channel H, presence: relay, floating
 - e.g. for HVAC control
 - Switch-on delay and switch-off delay configurable
 - Sensitivity adjustable
 - Detection area can be limited using cover clip
 - Ready for immediate use due to factory preset
 - Test mode for checking function and detection area
 - Extension of detection area via Master/ Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
 - Ceiling installation in flush-mounted socket
 - Ceiling installation also possible with surface-mounted frame
 - User remote control theSenda S, management remote control theSenda B (optional)
- thePassa P360 Slave**
- Slave version for thePassa P360
 - Just to be used with thePassa P360 as Master

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Product selection

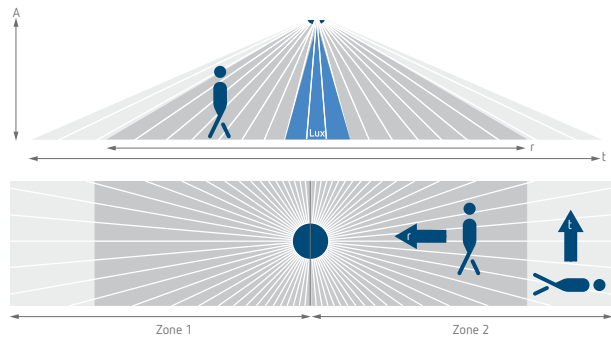
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	110–230 V AC	White	thePassa P360-101 UP WH	2010300
			Grey	thePassa P360-101 UP GR	2010301
	Slave	110–230 V AC	White	thePassa P360 Slave UP WH	2010330
			Grey	thePassa P360 Slave UP GR	2010331

Technical data

	thePassa P360-101 UP	thePassa P360 Slave UP
Operating voltage	110–230 V AC	
Frequency	50–60 Hz	
Installation height	2–6 m	
Minimum height	> 1,7 m	
Power consumption	ca. 0,1 W	
Setting range brightness	30–3000 lx	–
Incandescent/halogen lamp load	2300 W	–
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)	–
Inrush current	max. 800 A/200 μs	–
LED lamp < 2 W	60 W	–
LED lamp 2-8 W	180 W	–
LED lamp > 8 W	200 W	–
Switch-on delay presence	0 s–10 min/Room surveillance	–
Presence switch-off delay	10 s–120 min	–
Switching capacity presence	50 W/50 VA	–
Size of concealed housing	Ø 55 mm (NIS, PMI)	
Ambient temperature	–15 °C ... +50 °C	
Type of protection	IP 54 (when fitted)	

Detection range (Rectangular)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	56 m ² 16 m x 3,5 m	56 m ² 16 m x 3,5 m
2,5 m	72 m ² 18 m x 4 m	88 m ² 22 m x 4 m
3 m	90 m ² 20 m x 4,5 m	135 m ² 30 m x 4,5 m
3,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
4 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
4,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
5,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
6 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m



Accessories



theSenda B
↳ Art.No.: 9070985
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theSenda P
↳ Art.No.: 9070910
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theSenda S
↳ Art.No.: 9070911
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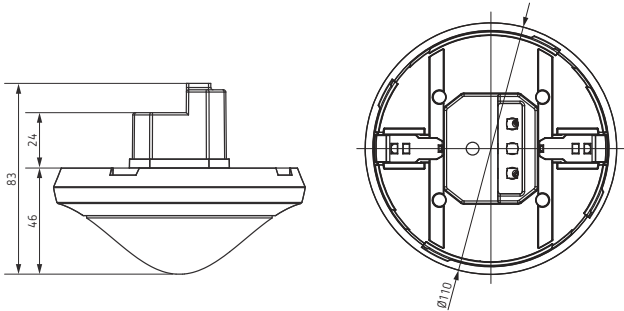
Surface frame 110A WH
Details page 337

Surface frame 110A GR
Details page 337

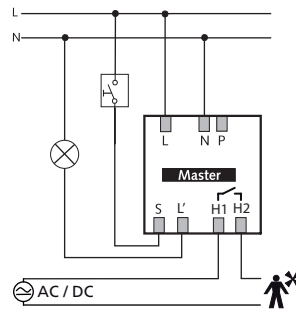
Ceiling installation box 73A
Details page 337

Masking clip
Details page 337

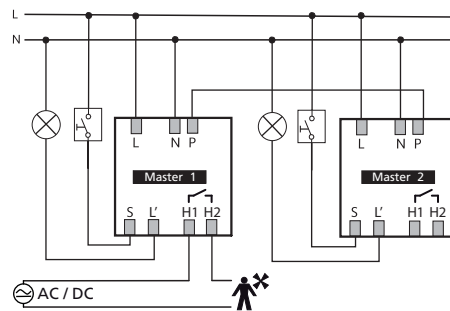
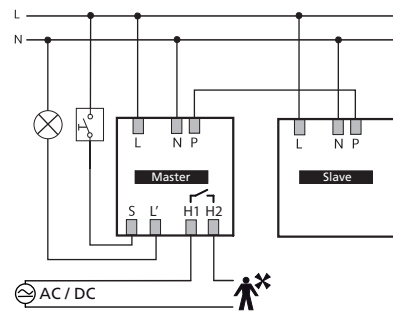
Scale drawings



Connection diagrams

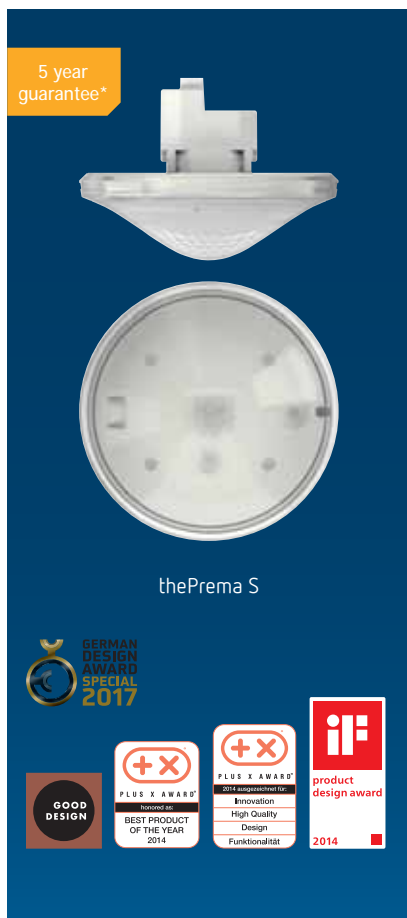


Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infrared presence detector for ceiling mounting
 - Square detection area 360° (up to 64 m²) for reliable and easy planning
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Choice of fully or semi-automatic (absence detection) operation
 - Adjustable brightness switching value, teach-in function
 - Self-learning time delay
 - Reduction of switch-off delay time in the event of short presence (brief-presence)
 - Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
 - Pulse function for staircase light time switch
 - Switch-on delay and switch-off delay configurable
 - Room monitoring with selective movement detection
 - Exceptionally easy configuration of the energy-saving behaviour with the new «eco plus» function
 - Staircase time function
 - User remote control theSenda S, management remote control theSenda B (optional)
 - Ready for immediate use due to factory preset
 - Test mode for checking function and detection area
 - Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
 - Ceiling installation in flush-mounted socket
 - Ceiling installation also possible with surface-mounted frame
- thePrema S360-101 E
- Automatic presence- and brightness-dependent control for lighting and HVAC
 - Channel A, light: relay, 230 V
 - Channel H, presence: relay, floating e.g. for HVAC control
 - Operating mode of light and presence relay can be flexibly selected using the remote control theSenda B
- thePrema S360-100 E
- Automatic presence- and brightness-dependent control for lighting
 - Channel A, light: relay, 230V
- thePrema S360 Slave E
- Slave version for thePrema
 - Just to be used with thePrema as Master

* According to guarantee conditions, see www.theben.de/en/guarantee

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	110–230 V AC	White	thePrema S360-101 E UP WH	2070605
			Grey	thePrema S360-101 E UP GR	2070606
	Light	110–230 V AC	White	thePrema S360-100 E UP WH	2070600
			Grey	thePrema S360-100 E UP GR	2070601
	Slave	110–230 V AC	White	thePrema S360 Slave E UP WH	2070630
			Grey	thePrema S360 Slave E UP GR	2070631

Technical data

	thePrema S360-101 E UP	thePrema S360-100 E UP	thePrema S360 Slave E UP
Operating voltage	110–230 V AC		
Frequency	50–60 Hz		
Installation height	2–3,5 m		
Power consumption	0,1 W		
Setting range brightness	Approx. 5–3000 lx/on		–
Light switch-off delay	Pulse (0,5 s), 10 s–60 min		–
Type of contact light	Relay 230 V / 10 A µ-contact		–
Incandescent/halogen lamp load	2300 W		–
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)		–
Inrush current	max. 800 A / 200 µs		–

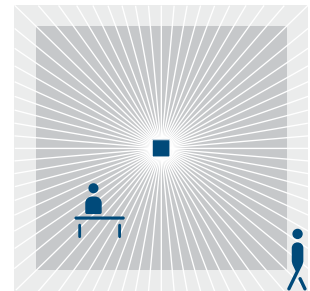
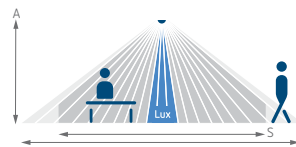
Presence and motion detectors

Presence detectors, 230 V AC

	thePrema S360-101 E UP	thePrema S360-100 E UP	thePrema S360 Slave E UP
Compact and fluorescent lamps (max. number of electronic ballasts)	16 x 54/58 W, 24 x 35/36 W, 8 x 2 x 54/58 W, 12 x 2 x 35/36 W		-
LED lamp < 2 W	60 W		-
LED lamp 2-8 W	180 W		-
LED lamp > 8 W	200 W		-
Switch-on delay presence	0 s-10 min/Room surveillance		-
Presence switch-off delay	10 s-120 min		-
Type of contact presence	Relay potential-free, 220 V DC / 250 V AC		-
Switching capacity presence	50 W/50 VA (max. 2 A), min. 0,5 mV/10 mA		-
Size of concealed housing		Ø 55 mm (NIS, PMI)	
Ambient temperature		0 °C ... +50 °C	
Type of protection		IP 40 (when fitted)	

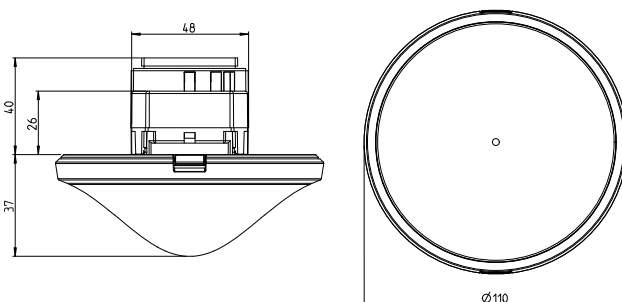
Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m² 4,5 m x 4,5 m ± 0,5 m	9 m² 3 m x 3 m
2,5 m	36 m² 6 m x 6 m ± 0,5 m	16 m² 4 m x 4 m
3 m	49 m² 7 m x 7 m ± 1 m	25 m² 5 m x 5 m
3,5 m	64 m² 8 m x 8 m ± 1 m	-



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Scale drawings



Accessories



theSenda P
↳ Art.No.: 9070910
Details page 341

QuickSafe
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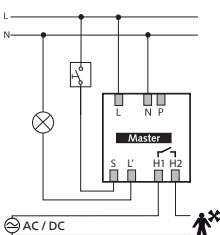
theSenda B
Details page 341

theSenda S
Details page 341

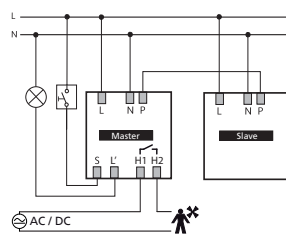
Surface frame 110A
Details page 337

Ceiling installation box 73A
Details page 337

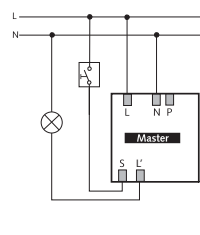
Connection diagrams



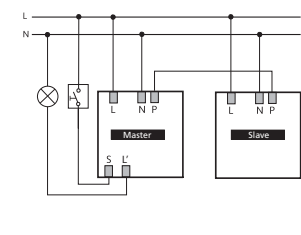
thePrema S360-101 E



thePrema S360-101 E,
thePrema S360 Slave E



thePrema S360-100 E



thePrema S360-100 E,
thePrema S360 Slave E

Presence and motion detectors

Presence detectors, 230 V AC



Description

thePrema P360-101 E

- Passive infrared presence detector for ceiling mounting
- Square detection area 360° (up to 100 m²) for reliable and easy planning
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Light measurement can be switched to spot or wide measurement
- Channel A, light: relay, 230 V
- Choice of fully or semi-automatic (absence detection) operation
- Adjustable brightness switching value, teach-in function
- Self-learning time delay
- Reduction of switch-off delay time in the event of short presence (brief-presence)
- Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
- Pulse function for staircase light time switch
- Channel H, presence: relay, floating e.g. for HVAC control

- Switch-on delay and switch-off delay configurable
 - Room monitoring with selective movement detection
 - Exceptionally easy configuration of the energy-saving behaviour with the new «eco plus» function
 - Staircase time function
 - Operating mode of light and presence relay can be flexibly selected using the remote control theSenda B
 - User remote control theSenda S, management remote control theSenda B (optional)
 - Ready for immediate use due to factory preset
 - Test mode for checking function and detection area
 - Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
 - Ceiling installation in flush-mounted socket
 - Ceiling installation also possible with surface-mounted frame
- thePrema P360 Slave E
- Slave version for thePrema
 - Just to be used with thePrema as Master

* According to guarantee conditions, see www.theben.de/en/guarantee

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	110–230 V AC	White	thePrema P360-101 E UP WH	2070105
			Grey	thePrema P360-101 E UP GR	2070106
	Slave	110–230 V AC	White	thePrema P360 Slave E UP WH	2070130
			Grey	thePrema P360 Slave E UP GR	2070131

Technical data

	thePrema P360-101 E UP	thePrema P360 Slave E UP
Operating voltage	110–230 V AC	
Frequency	50–60 Hz	
Installation height	2–10 m	
Power consumption	0,1 W	
Setting range brightness	Approx. 5–3000 lx/on	–
Light switch-off delay	Pulse (0,5 s), 10 s–60 min	–
Type of contact light	Relay 230 V/10 A μ-contact	–
Incandescent/halogen lamp load	2300 W	–
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)	–
Inrush current	max. 800 A/200 μs	–
Compact and fluorescent lamps (max. number of electronic ballasts)	16 x 54/58 W, 24 x 35/36 W, 8 x 2 x 54/58 W, 12 x 2 x 35/36 W	–
LED lamp < 2 W	60 W	–
LED lamp 2–8 W	180 W	–

Presence and motion detectors

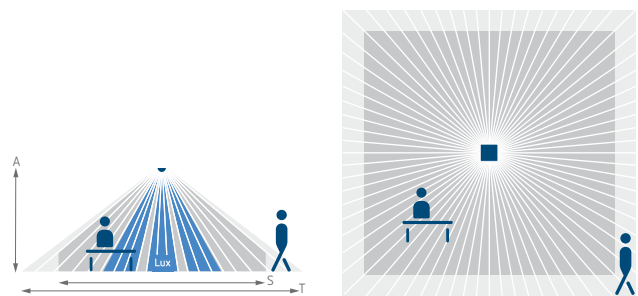
Presence detectors, 230 V AC

	thePrema P360-101 E UP	thePrema P360 Slave E UP
LED lamp > 8 W	200 W	-
Switch-on delay presence	0 s – 10 min/Room surveillance	-
Presence switch-off delay	10 s – 120 min	-
Type of contact presence	Relay potential-free, 220 V DC/250 V AC	-
Switching capacity presence	50 W/50 VA (max. 2 A), min. 0,5 mV/10 mA	-
Size of concealed housing	Ø 55 mm (NIS, PMI)	
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Square)

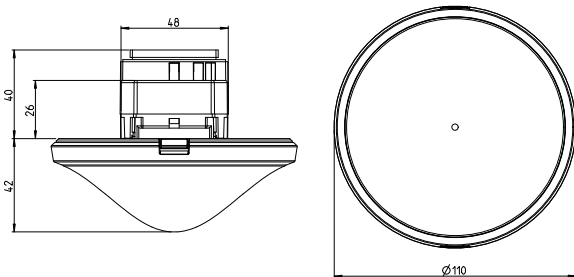
Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m ² 6 m x 6 m ± 0,5 m	20 m ² 4,5 m x 4,5 m
2,5 m	64 m ² 8 m x 8 m ± 0,5 m	36 m ² 6 m x 6 m
3 m	81 m ² 9 m x 9 m ± 1 m	49 m ² 7 m x 7 m
3,5 m	100 m ² 10 m x 10 m ± 1 m	64 m ² 8 m x 8 m
6 m	144 m ² 12 m x 12 m ± 1,5 m	-
10 m	400 m ² 20 m x 20 m ± 2 m	-

With a mounting height of more than 3.5 m walking motions are necessary and the detection areas of several detectors should overlap in the marginal zone. All figures are up to values. The detection range decreases with increasing temperatures.



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Scale drawings



Accessories



theSenda B
Details page 341

QuickSafe
Details page 324

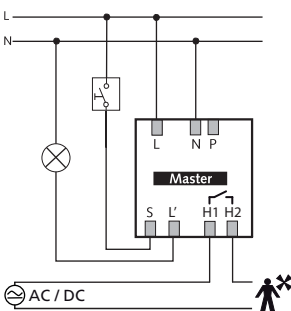
Ceiling installation box 73A
Details page 323

Surface frame 110A WH/GR
Details page 323

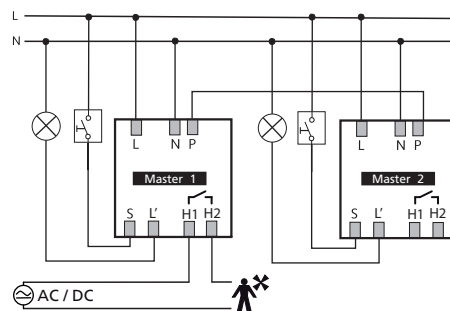
theSenda S
Details page 327

theSenda P
↳ Art.No.: 9070910
Details page 341

Connection diagrams



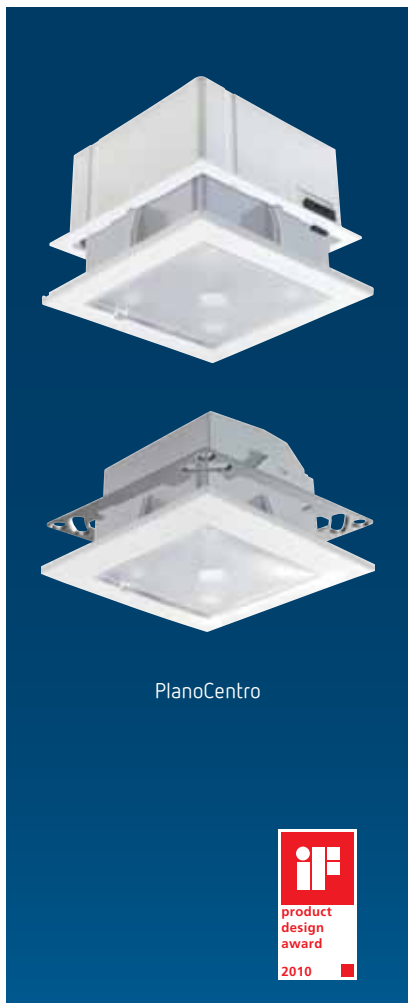
thePrema P360-101 E



thePrema P360-101 E

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Flush design using concave mirror technology
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- Square detection area for accurate and easy planning
- Light switch output (relay, 230 V)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Push button or switch connection for manual control
- Pulse function for staircase time switch
- Choice of fully or semi automatic operation: In „Semi-automatic“ (absence detection) mode the light must be switched on manually and switches off automatically
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Ready for use by 6 predefined settings, details can be set using the optional service remote control theSenda B
- Parameters can be selected for subsequent changes
- Adjustable sensitivity
- Optional user remote control
- Test operation to check detection area, installation, brightness settings
- Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Individual covers available upon request

PlanoCentro 101-EWH

- For ceiling installation (false ceilings)
- With installation for false ceilings and cover

PlanoCentro 000-EWH

- Slave-Version for PlanoCentro 101-EWH
- Just to be used with PlanoCentro 101-EWH as Master

PlanoCentro 101-UWH

- For flush-mounting (concrete ceiling)
- With metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover

PlanoCentro 000-UWH

- Slave-Version for PlanoCentro 101-UWH
- Just to be used with PlanoCentro 101-UWH as Master

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Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling mounting with mounting frame	Light Presence	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 101-EWH	2030102
	Slave	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 000-EWH	2040102
Ceiling installation (flush-mounting concrete)	Light Presence	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 101-UWH	2030202
	Slave	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 000-UWH	2040202

Technical data

	PlanoCentro 101	PlanoCentro 000
Operating voltage	230 V AC	
Frequency	50 Hz	
Installation height	2 – 3,5 m	
Power consumption	ca. 0,8 W	0,3 W
Setting range brightness	Approx. 5 – 2000 lx/on	–
Light switch-off delay	Pulse (0,5 s), 10 s – 60 min	–
Type of contact light	Relay 230 V/10 A	–
Incandescent/halogen lamp load	2300 W	–
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)	–

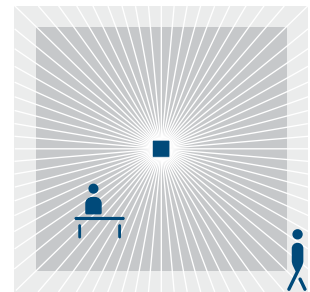
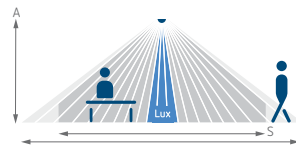
Presence and motion detectors

Presence detectors, 230 V AC

	PlanoCentro 101	PlanoCentro 000
Compact and fluorescent lamps (max. number of electronic ballasts)	20 x 54/58 W, 25 x 35/36 W, 10 x 2 x 54/58 W, 15 x 2 x 35/36 W	-
LED lamp < 2 W	60 W	-
LED lamp 2-8 W	180 W	-
LED lamp > 8 W	200 W	-
Switch-on delay presence	0 s-10 min	-
Presence switch-off delay	10 s-120 min	-
Type of contact presence	Relay potential-free, 220 V DC/250 V AC	-
Switching capacity presence	60 W (220 V DC), 62,5 VA (250 V AC), min. 0,5 mV/10 mA	-
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m ² 6 m x 6 m ± 0,5 m	20 m ² 4,5 m x 4,5 m
2,5 m	64 m ² 8 m x 8 m ± 0,5 m	36 m ² 6 m x 6 m
3 m	81 m ² 9 m x 9 m ± 1 m	49 m ² 7 m x 7 m
3,5 m	100 m ² 10 m x 10 m ± 1 m	64 m ² 8 m x 8 m



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Accessories



PlanoSets
for PlanoCentro-E
↳ Art.No.: 9070736
Details page 337



theSenda S
↳ Art.No.: 9070911
Details page 341



theSenda B
↳ Art.No.: 9070985
Details page 341

theSenda P
Details page 341

Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
Details page 338

PlanoBox
for PlanoCentro U
Details page 337

QuickSafe
Details page 338

PlanoCover 112 x 112
for PlanoCentro E
Details page 338

PlanoCover 123 x 123
for PlanoCentro U
Details page 338

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
 - Automatic control of lighting depending on presence and brightness
 - Flush design using concave mirror technology
 - Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
 - Square detection area for accurate and easy planning
 - Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Brightness threshold and self-learning switch-off delay adjustable
 - Push button or switch connection for manual control
 - Pulse function for staircase time switch
 - Choice of fully or semi automatic operation: In „Semi-automatic“ (absence detection) mode the light must be switched on manually and switches off automatically
 - Ready for use by 6 predefined settings, details can be set using the optional service remote control theSenda B
 - Parameters can be selected for subsequent changes
 - Adjustable sensitivity
 - Optional user remote control
 - Test operation to check detection area, installation, brightness settings
 - Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
 - Individual covers available upon request
- PlanoCentro 201**
- Channels A, B light: relay, 230V
 - Zero cross switching
 - Channel H, presence: relay, floating
 - Switch-on delay and switch-off delay
 - Room surveillance
 - Detection area can be extended by using slave-version PlanoCentro 000
 - For ceiling installation (false ceilings), with installation for false ceilings and cover (PlanoCentro 201-E)
 - For flush-mounting (concrete ceiling), with metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover (PlanoCentro 201)
- PlanoCentro 300**
- 3 light channels
 - Ideal for classrooms with two lighting groups switched according to daylight each with their own light measurement as well as presence-dependent controlled black-board lighting
 - A, B, C channels light: relay, 230V
 - Zero cross switching
 - Detection area can be extended by using slave-version PlanoCentro 000
 - For ceiling installation (false ceilings), with installation for false ceilings and cover (PlanoCentro 300-E)
 - For flush-mounting (concrete ceiling), with metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover (PlanoCentro 300-U)

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling mounting with mounting frame	3 x light	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 300-EWH	2030302
Ceiling installation (flush-mounting concrete)	3 x light	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 300-UWH	2030402
Ceiling mounting with mounting frame	2 x Light 1 x Presence	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 201-EWH	2030502
Ceiling installation (flush-mounting concrete)	2 x Light 1 x Presence	230 V AC	Pure white (similar to RAL 9010)	PlanoCentro 201-UWH	2030602

Technical data

	PlanoCentro 300	PlanoCentro 201
Operating voltage	230 V AC ± 10 %	
Frequency	50 Hz	
Installation height	2 – 3,5 m	
Power consumption	1 W	
Setting range brightness	Approx. 10 – 2000 lx/on	

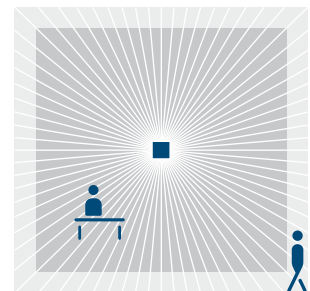
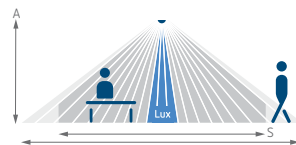
Presence and motion detectors

Presence detectors, 230 V AC

	PlanoCentro 300	PlanoCentro 201
Light switch-off delay	10 s–60 min	
Type of contact light	Relay 230 V/10 A	
Incandescent/halogen lamp load	2300 W, (total of all contacts)	
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)	
Compact and fluorescent lamps (max. number of electronic ballasts)	20 x 54/58 W, 25 x 35/36 W, 10 x 2 x 54/58 W, 15 x 2 x 35/36 W	
LED lamp < 2 W	60 W	
LED lamp 2–8 W	180 W	
LED lamp > 8 W	200 W	
Switch-on delay presence	–	0 s–10 min/Room surveillance
Presence switch-off delay	–	10 s–120 min
Type of contact presence	–	Relay potential-free, 220 V DC/250 V AC
Switching capacity presence	–	60 W (220 V DC), 62,5 VA (250 V AC), minimal 0,5 mV/10mA
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0,5 m	20 m² 4,5 m x 4,5 m
2,5 m	64 m² 8 m x 8 m ± 0,5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 1 m	49 m² 7 m x 7 m
3,5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m



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Accessories



PlanoSets
for PlanoCentro-E
↳ Art.No.: 9070736
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theSenda S
↳ Art.No.: 9070911
Details page 341



theSenda B
↳ Art.No.: 9070985
Details page 341

theSenda P
Details page 341
Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
Details page 338

PlanoBox
for PlanoCentro U
Details page 337

QuickSafe
Details page 338

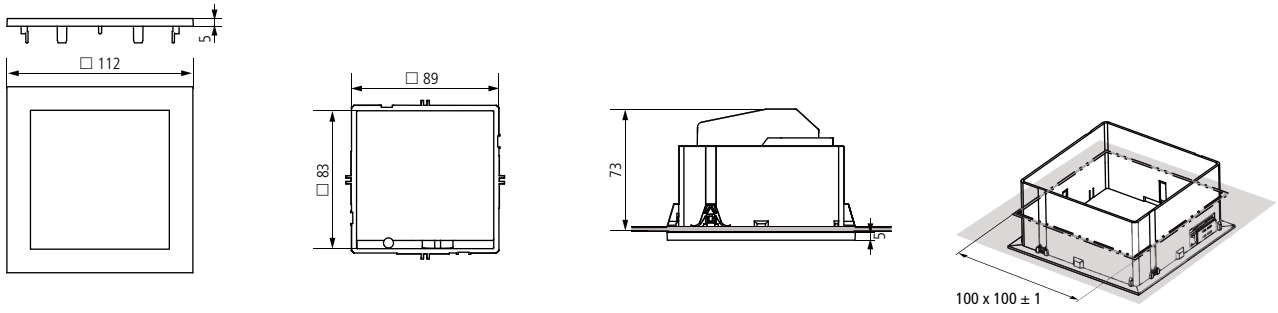
PlanoCover 112 x 112
for PlanoCentro E
Details page 338

PlanoCover 123 x 123
for PlanoCentro U
Details page 338

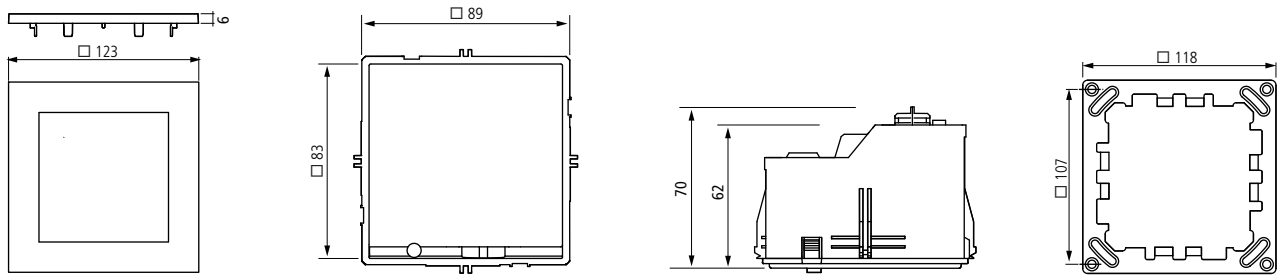
Presence and motion detectors

Presence detectors, 230 V AC

Scale drawings



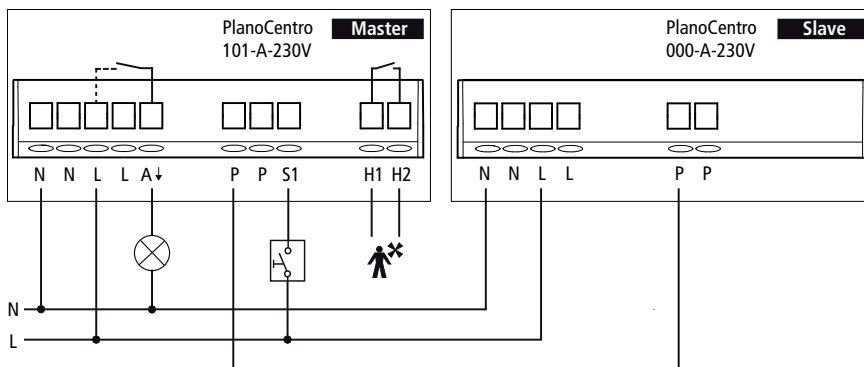
PlanoCentro E



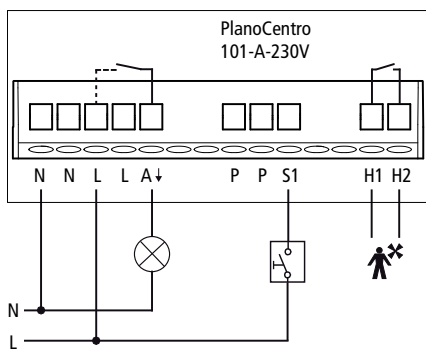
PlanoCentro U

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Connection diagrams

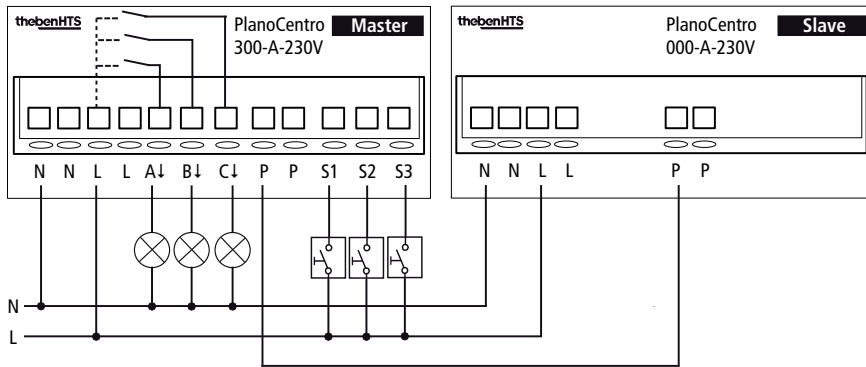


PlanoCentro 101

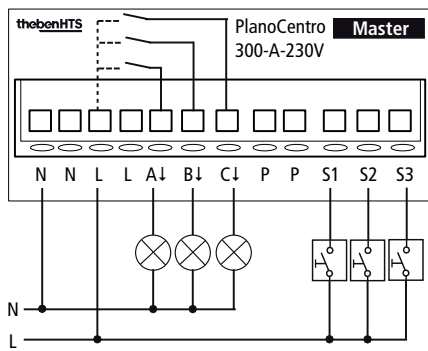


PlanoCentro 101

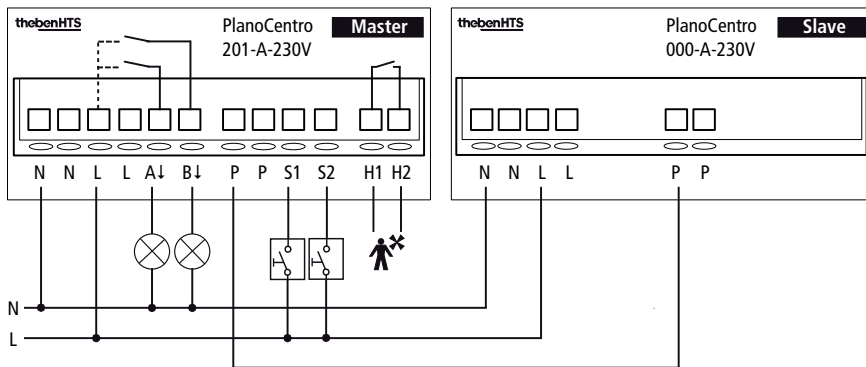
Connection diagrams



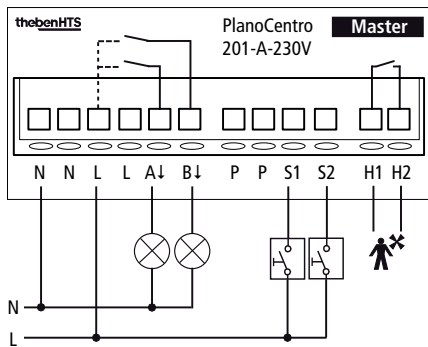
PlanoCentro 300



PlanoCentro 300



PlanoCentro 201



PlanoCentro 201

Presence and motion detectors

Presence detectors, 230 V AC



PresenceLight 180

Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- IP 54 for versatile use
- Light switch output (relay, 230 V)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Pulse function for staircase time switch
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Wall mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

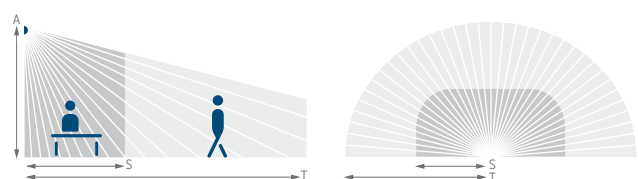
Installation type	Channel	Operating voltage	Colour	Type	Article number
Wall installation	Light	230 V AC	Pure white (similar to RAL 9010)	PresenceLight 180	2000050

Technical data

	PresenceLight 180
Operating voltage	230 V AC
Frequency	50 Hz
Installation height	1,7–2,2 m
Power consumption	0,9 W
Setting range brightness	Approx. 10–1500 lx/on
Light switch-off delay	Pulse (0,5 s), 10 s–20 min
Type of contact light	Relay 230 V
Resistive load	1400 W
Incandescent/halogen lamp load	1200 W
Compact and fluorescent lamps	960 VA (cos φ = 0,8), 580 VA (cos φ = 0,5)
Compact and fluorescent lamps (max. number of electronic ballasts)	10 x (1 x 54/58 W), 5 x (2 x 54/58 W), 16 x (1 x 35/36 W), 8 x (2 x 35/36 W), 16 x (smaller than 35/36 W)
LED lamp < 2 W	25 W
LED lamp 2–8 W	70 W
LED lamp > 8 W	80 W
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	–20 °C ... +50 °C
Type of protection	IP 54

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2,2 m	100 m² 8 m	25 m² 7 m x 3,5 m



Accessories



Surface frame PresenceLight
↳ Art.No.: 9070513
Details page 336



theSenda B
↳ Art.No.: 9070985
Details page 341

QuickSafe
Details page 338

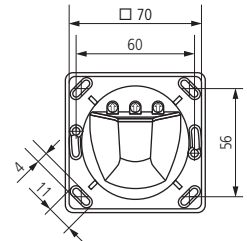
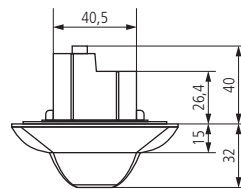
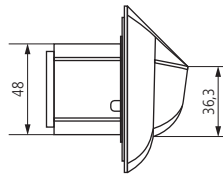
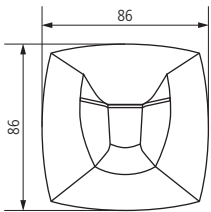
Cover frame PresenceLight
180 SR
Details page 336

Cover frame PresenceLight
180 BK
Details page 336

Surface frame PresenceLight BK
Details page 336

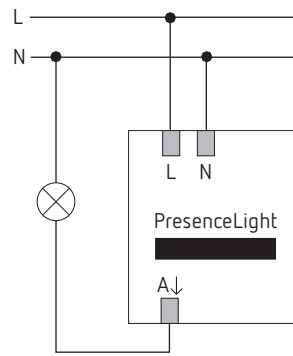
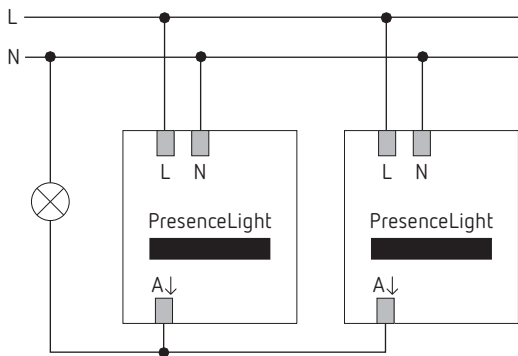
Surface frame PresenceLight SR
Details page 336

Scale drawings

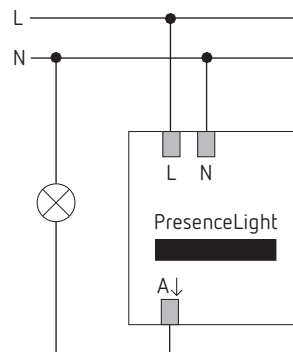
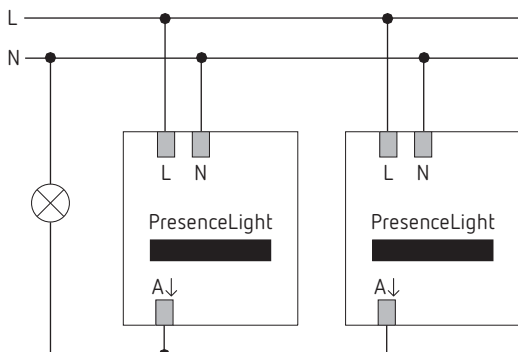


7

Connection diagrams



Connection diagrams



Presence and motion detectors

Presence detectors, DALI



Description

- Passive infrared presence detector for ceiling mounting
- Square 360° detection range for an accurate and simple planning
- DALI interface in accordance with EN 62386 for max. 25 DALI electronic ballasts
- Automatic allocation of DALI participants (DALI Broadcast)
- Automatic lighting regulation with constant light control
- Mixed light measurement suitable for switching fluorescent lamps (FL/PL), halogen and incandescent lamps as well as LEDs
- Facility to connect a push button for manual dimming and switching (single-button control)
- Fully or semi-automatic operation switch-selectable
- Brightness switching level, self-learning switch-off delay time, stand-by time and stand-by brightness can be adjusted
- Scene component with two built-in scenes
- Ready for immediate use due to factory preset
- Test mode for checking function and detection area
- Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched at the same time
- Ceiling installation in flush-mounted socket
- Ceiling installation possible with surface-mounted frame
- User remote control theSenda S (option)
- Service remote control theSenda B (option)

7

* According to guarantee conditions, see www.theben.de/en/guarantee

Product selection

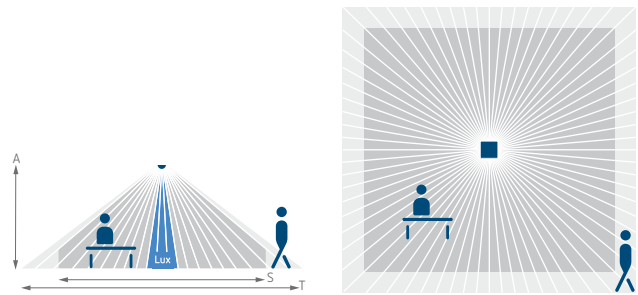
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	DALI	230 V AC	White	thePrema S360 DALI UP WH	2070525
			Grey	thePrema S360 DALI UP GR	2070526

Technical data

	thePrema S360 DALI UP WH	thePrema S360 DALI UP GR
Operating voltage	230 V AC	
Frequency	50 Hz	
Installation height	2–3,5 m	
Minimum height	> 1,7 m	
Power consumption	0,5 W	
Setting range brightness	5–3000 lx	
Stand-by time light	0 s–60 min/on	
Stand-by brightness	1–25 %	
Control output	50 mA	
Size of concealed housing	Ø 55 mm (NIS, PMI)	
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4,5 m x 4,5 m ± 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m ± 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	25 m ² 5 m x 5 m
3,5 m	64 m ² 8 m x 8 m ± 1 m	-



Accessories



Surface frame 110A WH
↳ Art.No.: 9070912
Details page 337



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

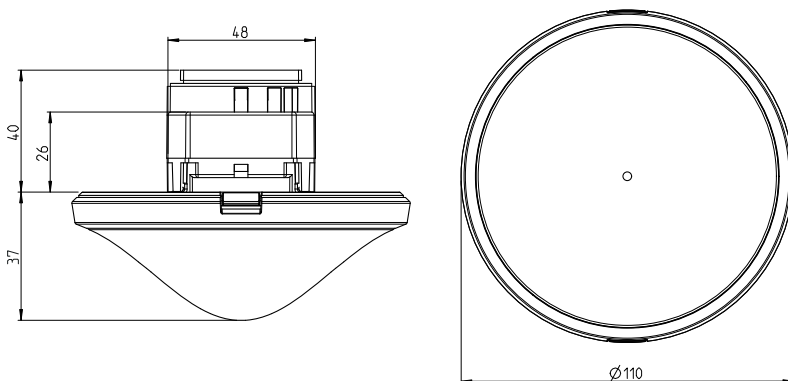
Surface frame 110A GR
Details page 337

theSenda B
Details page 341

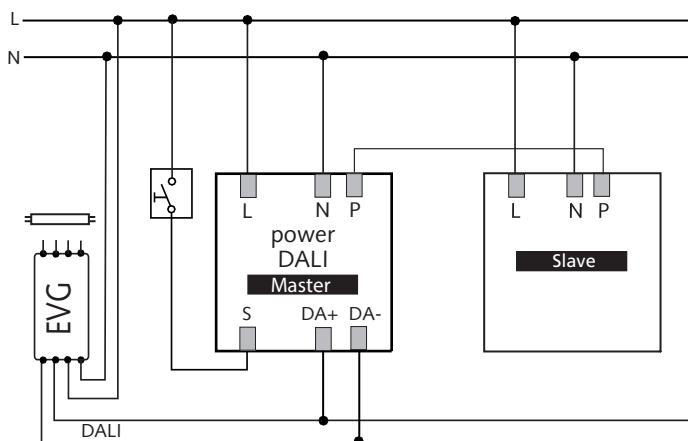
Ceiling installation box 73A
Details page 337

QuickSafe
Details page 338

Scale drawings

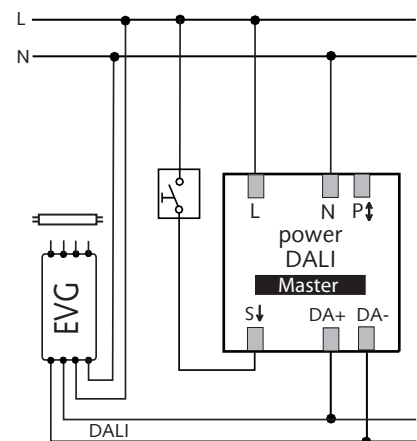


Connection diagrams



thePrema S360 DALI

thePrema S360 Slave E



thePrema S360 DALI

Presence and motion detectors

Presence detectors, DALI



Description

- Passive infrared presence detector for ceiling mounting
- Square detection area for corridors and storage areas
- Detection area with 2 individually connectable and disconnectable detection zones, each 15 x 5 m (total 30 x 5 m)
- Up to 2 light channels DALI addressable or 1 light channel DALI in Broadcast mode
- Flexible assignment of up to 2 light groups towards one DALI line
- Easy, intuitive configuration of the DALI groups
- Up to 2 push-button inputs
- Using of conventional push-buttons for maximum design freedom
- Switch or constant light control mode with stand-by function
- Dimmable lighting in switch mode with stand-by function
- Choice of fully or semi-automatic operation
- Easy integration of an external DALI relay by an additional group e.g. for HVAC applications possible
- Adjustable brightness switching value
- Teach-in function via remote control or push-button
- Setting of room correction factor (Automatic adjustment of brightness measurement)
- Light time delay can be set
- Calibrated 2 channels light measurement
- Brief-presence
- Self-learning time delay
- Extremely easy setting of energy saving characteristics with the new „eco plus“ function
- Selectable control speed
- Manual override via remote control or pushbutton
- Behavior after push button operation selectable (school / office)
- Test mode light
- Test-Mode presence
- Remote-controllable
- Scenes
- Sensitivity adjustable
- Detection area can be limited using cover clip
- Extension of detection area via Master / Slave or Master / Master switching
- Optimized handling by installer during assembly, wiring, commissioning

7

Product selection

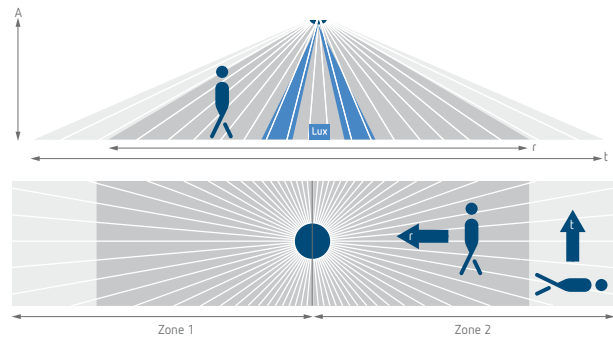
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	DALI	110–230 V AC	White	thePassa P360-221 DALI UP WH	2010340
			Grey	thePassa P360-221 DALI UP GR	2010341

Technical data

	thePassa P360-221 DALI UP WH
Operating voltage	110–230 V AC
Frequency	50–60 Hz
Installation height	2–6 m
Minimum height	> 1,7 m
Switching output	DALI
Power consumption	≤ 0,4 W
Setting range brightness	10–3000 lx
Stand-by time light	0 s–60 min/on
Stand-by brightness	1–25 %
Control output	100 mA
Output light	DALI-interface according to IEC SN EN 62 386 for max. 50 DALI devices
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	–15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Rectangular)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	56 m ² 16 m x 3,5 m	56 m ² 16 m x 3,5 m
2,5 m	72 m ² 18 m x 4 m	88 m ² 22 m x 4 m
3 m	90 m ² 20 m x 4,5 m	135 m ² 30 m x 4,5 m
3,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
4 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
4,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
5,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
6 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

QuickSafe
Details page 338

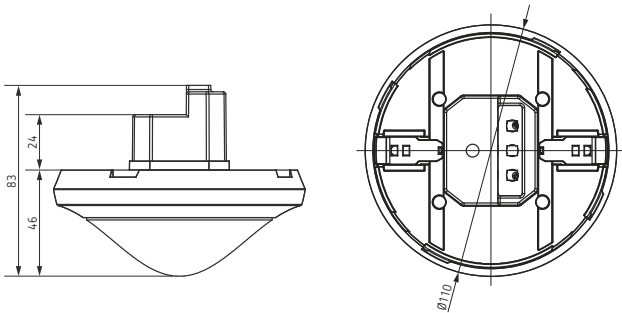
Surface frame 110A WH
Details page 337

Surface frame 110A GR
Details page 337

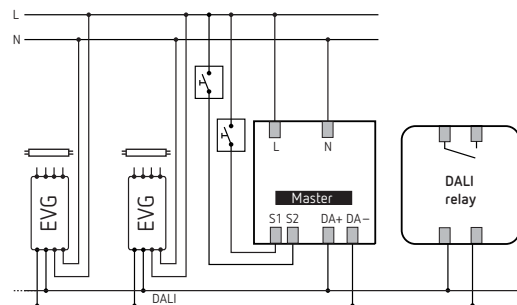
Ceiling installation box 73A
Details page 337

Masking clip
Details page 337

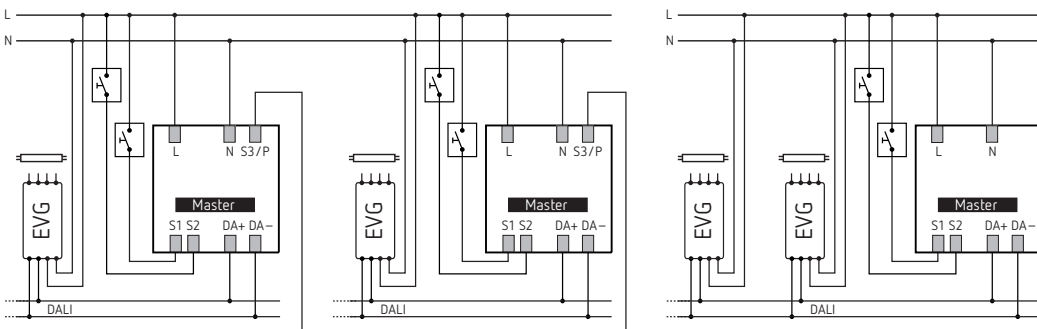
Scale drawings



Connection diagrams



Connection diagrams



Presence and motion detectors

Presence detectors, DALI



Description

theRonda P360-110 DALI UP,
theRonda S360-110 DALI UP

- Passive infrared presence detector for ceiling mounting
- Round detection area 360°
- 1 light channel DALI broadcast
- 1 push-button input
- Using of conventional push-buttons for maximum design freedom
- Switch or constant light control mode with stand-by function
- Dimmable lighting in switch mode with stand-by function
- Choice of fully or semi-automatic operation
- Adjustable brightness switching value
- Teach-in function via remote control or push-button
- Setting of room correction factor (Automatic adjustment of brightness measurement)
- Light time delay can be set
- Calibrated 1 channel light measurement
- Brief-presence
- Self-learning time delay
- Extremely easy setting of energy saving characteristics with the new „eco plus“ function

- Selectable control speed
- Manual override via remote control or push-button
- Behavior after push button operation selectable (school / office)
- Test mode light
- Test-Mode presence
- Remote-controllable
- Scenes
- Sensitivity adjustable
- Detection area can be limited using cover clip
- Extension of detection area via Master/Slave or Master/Master switching
- Optimized handling by installer during assembly, wiring, commissioning

theRonda P360-330 DALI UP

As theRonda S360-110 & P360-110, but:

- Flexible assignment of up to 3 light groups towards one DALI line
- Easy, intuitive configuration of the DALI groups
- Up to 3 push-button inputs
- Flexible assignment of the push-buttons to the desired light channel using remote control
- Calibrated 3 channels light measurement

Product selection

Installation type	Channel	Detection range	Colour	Type	Article number
Ceiling installation	3 channels addressable	Ø 24 m	White	theRonda P360-330 DALI UP WH	2080045
			Grey	theRonda P360-330 DALI UP GR	2080046
	1 channel Broadcast	Ø 24 m	White	theRonda P360-110 DALI UP WH	2080040
			Grey	theRonda P360-110 DALI UP WH	2080041
	1 channel Broadcast	Ø 8 m	White	theRonda S360-110 DALI UP WH	2080580
			Grey	theRonda S360-110 DALI UP WH	2080581

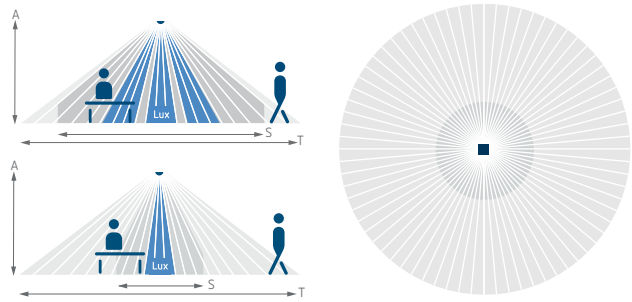
Technical data

	theRonda P360-330 DALI UP	theRonda P360-110 DALI UP	theRonda S360-110 DALI UP
Operating voltage	110–230 V AC		
Frequency	50–60 Hz		
Installation height	2–10 m		2–4 m
Minimum height	> 1,7 m		
Power consumption	0,3 W		
Setting range brightness	10–3000 lx / measurement off		
Light switch-off delay	10 s–60 min		
Stand-by time light	0 s–60 min/on		
Stand-by brightness	1–25 %		
Control output	100 mA		
Size of concealed housing	Ø 55 mm (NIS, PMI)		
Ambient temperature	–15 °C ... +50 °C		
Type of protection	IP 54 (when fitted)		

Detection range theRonda P (Round)

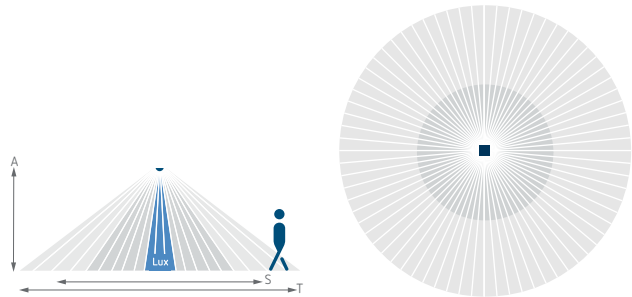
Mounting height (A)	Sitting (S)	Walking diagonally (T)	Walking head on to
2 m	16 m ² 4,5 m	380 m ² 22 m	28 m ² 6 m
2,5 m	24 m ² 5,5 m	415 m ² 23 m	38 m ² 7 m
3 m	28 m ² 6 m	452 m ² 24 m	50 m ² 8 m
3,5 m	38 m ² 7 m	452 m ² 24 m	50 m ² 8 m
6 m	-	452 m ² 24 m	50 m ² 8 m
10 m	-	491 m ² 25 m	50 m ² 8 m

With a mounting height of more than 3.5 m walking motions are necessary and the detection areas of several detectors should overlap in the marginal zone. All figures are up to values. The detection range decreases with increasing temperatures.



Detection range theRonda S (Round)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	38 m ² 7 m	5 m ² 2,5 m
2,5 m	38 m ² 7 m	7 m ² 3 m
3 m	50 m ² 8 m	13 m ² 4 m
3,5 m	50 m ² 8 m	-
4 m	64 m ² 9 m	-



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

Surface frame 110A
Details page 337

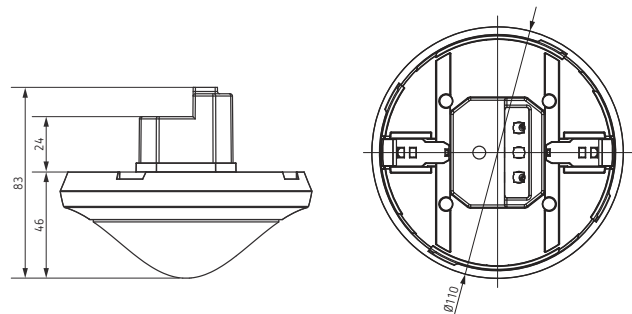
theSenda S/P
Details page 341

Ceiling installation box 73A
Details page 337

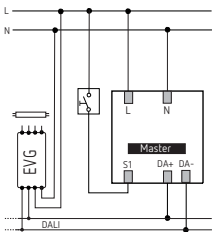
Masking clip
Details page 337

QuickSafe
Details page 338

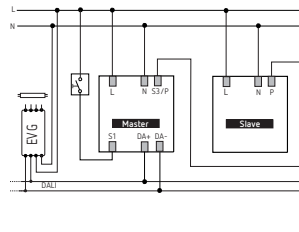
Scale drawings



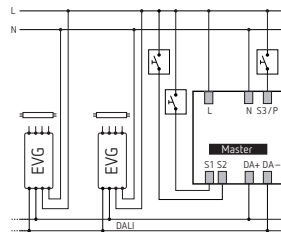
Connection diagrams



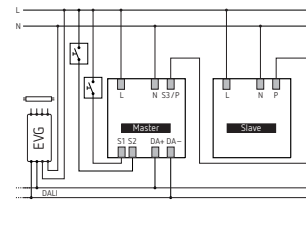
theRonda S360-110 DALI UP,
theRonda P360-110 DALI UP,



theRonda S360-110 DALI UP,
theRonda P360-110 DALI UP,



theRonda P360-330 DALI UP



theRonda P360-330 DALI UP

Presence and motion detectors

Presence detectors, DALI



Description

- Passive infrared presence detector for mounting in suspended ceilings
- Detection area: 360°, square (up to 64 sqm) for easy and reliable planning
- Higher flexibility due to two detection areas, different in size
- Detection of brightness and presence for automatic control of lighting and HVAC
- Triple light measurement (mixed light), suitable for fluorescent lamps, halogen- / incandescent lamps and LEDs
- Totally flat design, cover frames changeable in form, colour and material
- Optical system can be swiveled for adjusting detection area
- Test mode for verification of function and detection area
- Adjustable detection sensitivity
- Setting of parameters via DALI-bus or remote control
- Management remote control (optional)
- PlanoSpot DALI is configured as a sensor only
- It cannot control loads, process events or make any bus configurations (addressing, binding)
- Configuring the PlanoSpot DALI via the DALI bus therefore requires a commissioning device which supports the functionality of PlanoSpot DALI
- Detection area, detection sensitivity and room factor may be optionally configured by means of the theSenda B management remote control

7

Product selection

Installation type	Colour	Type	Article number
Ceiling installation	White	PlanoSpot 360 DALI DE WH	2030110

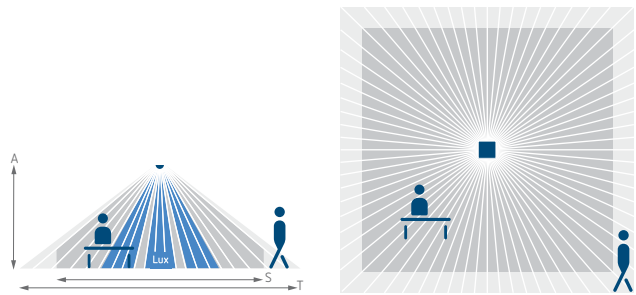
Technical data

	PlanoSpot 360 DALI DE WH
Installation height	2 – 3,5 m
Minimum height	> 1,7 m
Measurement range brightness	10 – 10000 lx
Light switch-off delay	10 s – 60 min
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 20

Detection range (Square)

Detection zone standard		
Mounting height (A)	Sitting (S)	Walking (T)
2 m	9 m ² 3 m x 3 m	20 m ² 4,5 m x 4,5 m ± 0,5 m
2,5 m	16 m ² 4 m x 4 m	36 m ² 6 m x 6 m ± 0,5 m
3 m	20 m ² 4,5 m x 4,5 m	49 m ² 7 m x 7 m ± 1 m
3,5 m	–	64 m ² 8 m x 8 m ± 1 m

Detection zone reduced		
Mounting height (A)	Sitting (S)	Walking (T)
2 m	4 m ² 2 m x 2 m	4,4 m ² 2,1 m x 2,1 m ± 0,5 m
2,5 m	6,3 m ² 2,5 m x 2,5 m	9 m ² 3 m x 3 m ± 0,5 m
3 m	9 m ² 3 m x 3 m	14,4 m ² 3,8 m x 3,8 m ± 1 m
3,5 m	–	22,1 m ² 4,7 m x 4,7 m ± 1 m



Accessories



Surface frame 75B WH
Details page 337

PlanoCover 76 BK
Details page 337

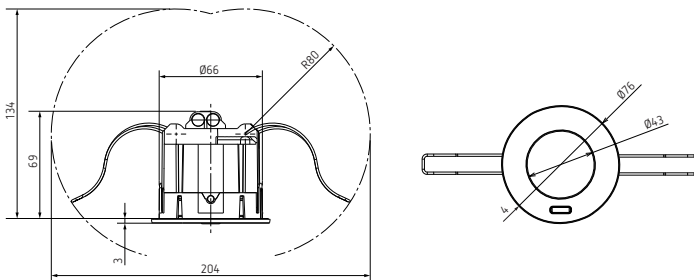
PlanoCover 76 SR
Details page 337

theSenda B

↳ Art.No.: 9070985

Details page 341

Scale drawings



Presence and motion detectors

Presence detectors, LON



Description

- Passive infrared presence detector for flush/surface mounting
- Square detection area 360° (up to 64 m²) for accurate and easy planning
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- 2 independent constant light controllers #3050 for controlling two light groups
- 3 x occupancy controller #3071
- Light sensor #1010
- Occupancy sensor #1060
- Plug-in for convenient adjustment of parameters and functionality
- Brightness set point value can be set via network variables
- Scene Panel #3250 can be used with the theSenda S user remote control
- Integrated scene module (Scene controller #3251)
- Parallel switching of multiple presence detectors without logic modules
- Adjustable sensitivity
- Can be configured remotely
- theSenda B management remote control (optional)
- theSenda S user remote control (optional)
- LONMARK certified

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	LON	24 V AC/DC	Pure white (similar to RAL 9010)	PresenceLight 360 PLLON WH	2009100

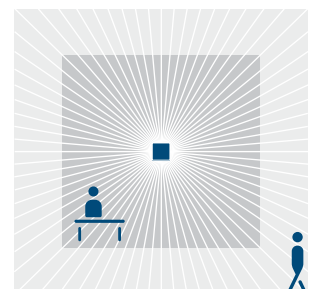
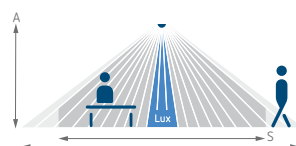
7

Technical data

PresenceLight 360 PLLON WH	
Topology	LON FTT
Operating voltage	24 V AC/DC AC +10 % / -20 % DC ±20 %
Power consumption	30 mA
Installation height	2–3,5 m
Minimum height	> 1,7 m
Setting range brightness	5–2000 lx/measurement off
Light switch-off delay	10 s–100 min
Stand-by time light	30 s–60 min, on, inactive, always on
Stand-by brightness	1–25 %
Switch-on delay presence	10 s–30 min/inactive
Ambient temperature	-10 °C ... +50 °C
Type of protection	IP 54

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4,5 m x 4,5 m ± 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m ± 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4,5 m x 4,5 m
3,5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame PresenceLight
↳ Art.No.: 9070513
Details page 336



theSenda B
↳ Art.No.: 9070985
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341



theSenda P
↳ Art.No.: 9070910
Details page 341



QuickSafe
↳ Art.No.: 9070531
Details page 338

Surface frame PresenceLight BK
Details page 336

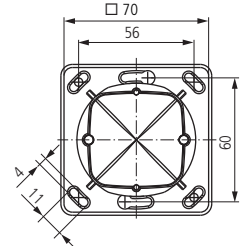
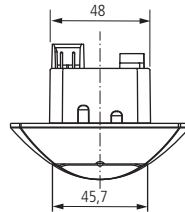
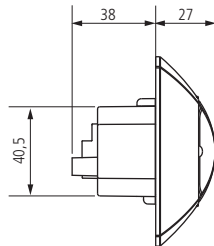
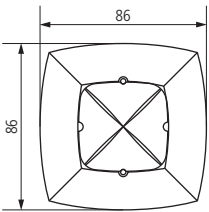
Surface frame PresenceLight SR
Details page 336

Ceiling installation box 73A
Details page 337

Cover frame PresenceLight 360 SR
Details page 336

Cover frame PresenceLight 360 BK
Details page 336

Scale drawings



Presence and motion detectors

Presence detectors, LON



Description

- Passive infrared presence detector for ceiling installation
- Flat design with interchangeable bezel frame in different colours
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- Square detection area 360° (up to 64 m²) for reliable and easy planning
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Two differently sized detection zones for greater flexibility. Adjustable via parameters or remote control.
- Manual alignment of the detection area (swivel mechanism)
- Mixed light measurement in 3 ways suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- 3 x light sensor #1010
- Detection and sending of current brightness
- Setting the room correction factor for brightness measurement calibration
- 2 x constant light controller #3050 for controlling two lighting groups
- Switching or constant light control with standby function (orientation light)
- Switching mode with dimmable lighting
- Fully or semi-automatic
- Brightness switching value or setpoint value can be set in lux via plug-in, network variable or remote control
- Teach-in of the brightness switching value or the setpoint value
- Self-learning time delay can be set via plug-in, network variable or remote control
- Reduction of time delay when present briefly (short-term presence)
- Manual override by network variable, or remote control
- 3 x occupancy controller #3071
- Occupancy sensor #1060
- Switch-on delay and configurable
- Separate disable objects for light and presence outputs
- Configurable sensitivity of motion detection
- Test mode for checking function and detection area
- Scene panel #3250 can be used with the user remote control
- Integrated scene module (Scene controller #3251)
- Parallel switching of multiple presence detectors (master/slave or master/master)
- Installation in false ceilings with springs
- Surface mounting on ceilings possible with back box (optional)
- User remote control «theSenda S» (optional)
- Management remote control «theSenda B» (optional)
- Installation remote control «theSenda P» (optional)
- Standardised LONMARK objects
- Plug-in for convenient adjustment of parameters and functionality

7

Product selection

Installation type	Colour	Type	Article number
Ceiling installation	Pure white (similar to RAL 9010)	PlanoSpot 360 PSLON DE WH	2039200

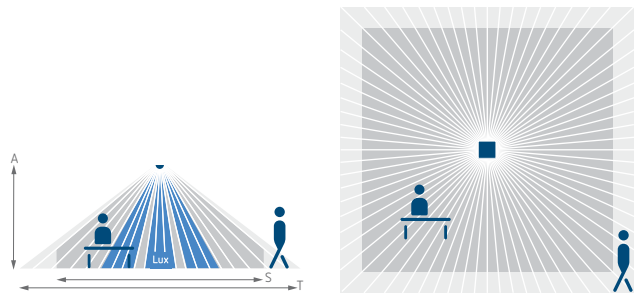
Technical data

	PlanoSpot 360 PSLON DE
Topology	LON FTT
Operating voltage	24 V AC/DC AC +10 % / -20 % DC ±20 %
Power consumption	30 mA
Installation height	2–3,5 m
Minimum height	> 1,7 m
Setting range brightness	10–3000 lx/measurement off
Light switch-off delay	10 s–100 min
Stand-by time light	30 s–60 min, on, inactive, always on
Stand-by brightness	1–25 %
Switch-on delay presence	10 s–30 min/inactive
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 20

Detection range (Square)

Detection zone standard		
Mounting height (A)	Sitting (S)	Walking (T)
2 m	9 m ² 3 m x 3 m	20 m ² 4,5 m x 4,5 m ± 0,5 m
2,5 m	16 m ² 4 m x 4 m	36 m ² 6 m x 6 m ± 0,5 m
3 m	20 m ² 4,5 m x 4,5 m	49 m ² 7 m x 7 m ± 1 m
3,5 m	–	64 m ² 8 m x 8 m ± 1 m

Detection zone reduced		
Mounting height (A)	Sitting (S)	Walking (T)
2 m	4 m ² 2 m x 2 m	4,4 m ² 2,1 m x 2,1 m ± 0,5 m
2,5 m	6,3 m ² 2,5 m x 2,5 m	9 m ² 3 m x 3 m ± 0,5 m
3 m	9 m ² 3 m x 3 m	14,4 m ² 3,8 m x 3,8 m ± 1 m
3,5 m	–	22,1 m ² 4,7 m x 4,7 m ± 1 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

Surface frame 75B WH
Details page 337

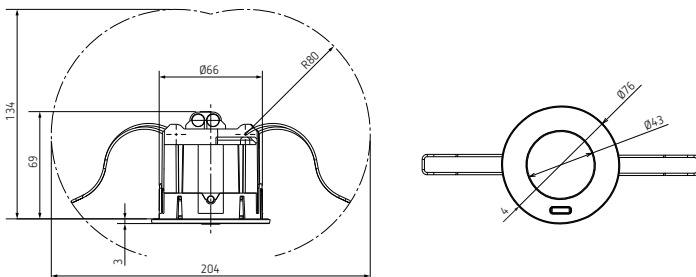
PlanoCover 76 BK
Details page 337

PlanoCover 76 SR
Details page 337

theSenda P
Details page 341

theSenda S
Details page 341

Scale drawings



Presence and motion detectors

Presence detectors, LON



Description

- Passive infrared presence detector for ceiling installation and flush/surface mounting
 - Square detection area 360° (up to 100 m²) for accurate and easy planning
 - Automatic presence- and brightness-dependent control for lighting and HVAC
 - Flat design
 - Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
 - 3 x mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - 2 independent constant light controllers #3050 for controlling two light groups
 - Switching or constant light control with standby function
 - Fully or semi-automatic function mode
 - 3 x occupancy controller #3071
 - for controlling the constant light controller or use as presence channels
 - 3 x light sensor #1010
 - Occupancy sensor #1060
 - Plug-in for convenient adjustment of parameters and functionality
 - Brightness set point value can be set via network variables
 - Scene Panel #3250 can be used with the theSenda S user remote control
 - Integrated scene module (Scene controller #3251)
 - Parallel switching of multiple presence detectors without logic modules
 - Adjustable sensitivity
 - Can be configured remotely and selection of set parameters
 - theSenda B management remote control (optional)
 - theSenda S user remote control (optional)
 - LONMARK certified
- PlanoCentro EWH PCLON**
- For ceiling installation (false ceilings), with installation for false ceilings and cover
- PlanoCentro UWH PCLON**
- For flush-mounting (concrete ceiling), with metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover

7

Product selection

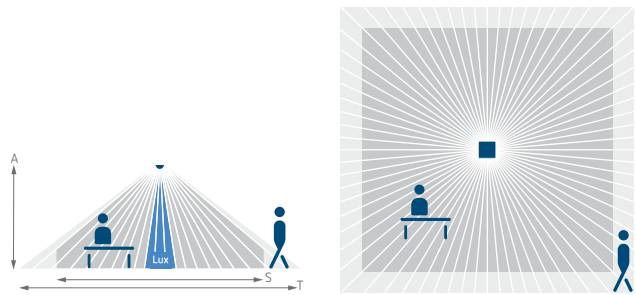
Installation type	Colour	Type	Article number
Ceiling mounting with mounting frame	Pure white (similar to RAL 9010)	PlanoCentro EWH PCLON	2069102
Ceiling installation (flush-mounting concrete)	Pure white (similar to RAL 9010)	PlanoCentro UWH PCLON	2069202

Technical data

	PlanoCentro PCLON
Topology	LON FTT
Operating voltage	24 V AC/DC AC +10 % / -20 % DC ±20 %
Power consumption	30 mA
Installation height	2 – 3 m
Minimum height	> 1,7 m
Setting range brightness	10 – 2000 lx/measurement off
Light switch-off delay	10 s – 100 min
Stand-by time light	30 s – 60 min, on, inactive, always on
Stand-by brightness	1 – 25 %
Switch-on delay presence	10 s – 30 min/inactive
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when mounted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m ² 6 m x 6 m ± 0,5 m	20 m ² 4,5 m x 4,5 m
2,5 m	64 m ² 8 m x 8 m ± 0,5 m	36 m ² 6 m x 6 m
3 m	81 m ² 9 m x 9 m ± 1 m	49 m ² 7 m x 7 m
3,5 m	100 m ² 10 m x 10 m ± 1 m	64 m ² 8 m x 8 m



Accessories



PlanoSets
for PlanoCentro-E
↳ Art.No.: 9070736
Details page 337



theSenda S
↳ Art.No.: 9070911
Details page 341



theSenda B
↳ Art.No.: 9070985
Details page 341

theSenda P
Details page 341

Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
Details page 338

PlanoBox
for PlanoCentro U
Details page 337

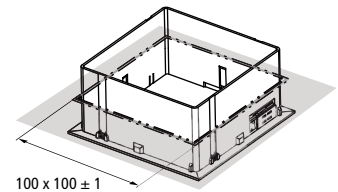
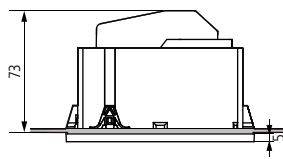
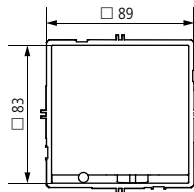
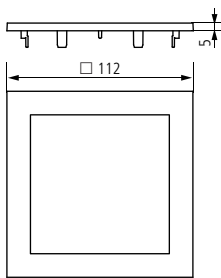
QuickSafe
Details page 338

PlanoCover 112 x 112
for PlanoCentro E
Details page 338

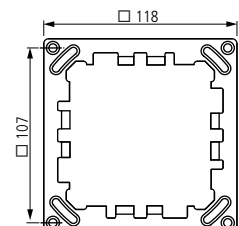
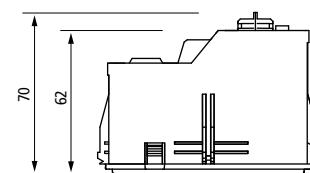
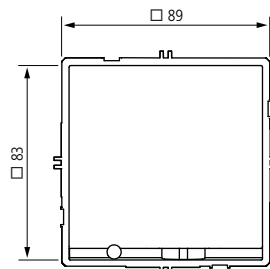
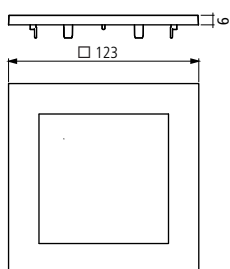
PlanoCover 123 x 123
for PlanoCentro U
Details page 338

7

Scale drawings



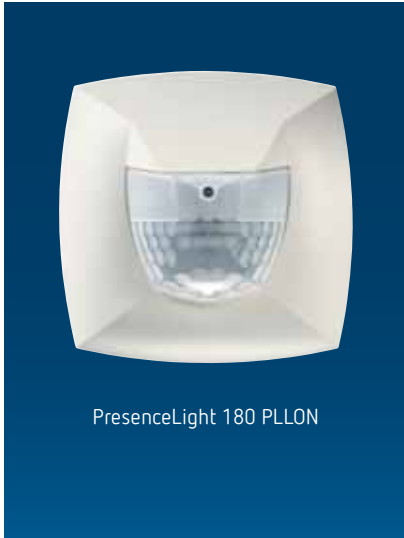
PlanoCentro E



PlanoCentro U

Presence and motion detectors

Presence detectors, LON



Description

- Passive infrared presence detector for wall mounting
- Detection area 180° (up to 100 m²)
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- 2 independent constant light controllers #3050 for controlling two light groups
- 3 x occupancy controller #3071
- Light sensor #1010
- Occupancy sensor #1060
- Plug-in for convenient adjustment of parameters and functionality
- Brightness set point value can be set via network variables
- Scene Panel #3250 can be used with the theSenda S user remote control
- Integrated scene module (Scene controller #3251)
- Parallel switching of multiple presence detectors without logic modules
- Adjustable sensitivity
- Can be configured remotely
- theSenda B management remote control (optional)
- theSenda S user remote control (optional)
- LONMARK certified

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Wall installation	LON	24 V AC/DC	Pure white (similar to RAL 9010)	PresenceLight 180 PLLON WH	2009150

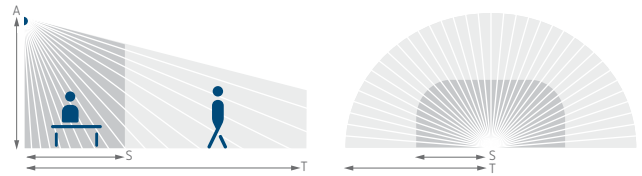
7

Technical data

	PresenceLight 180 PLLON WH
Topology	LON FTT
Operating voltage	24 V AC/DC AC +10 % / -20 % DC ±20 %
Power consumption	30 mA
Installation height	1,7–2,2 m
Setting range brightness	5–2000 lx/measurement off
Stand-by time light	30 s–60 min, on, inactive, always on
Stand-by brightness	1–25 %
Light switch-off delay	10 s–100 min
Switch-on delay presence	10 s–30 min/inactive
Ambient temperature	-10 °C ... +50 °C
Type of protection	IP 54

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2,2 m	100 m ² 8 m	25 m ² 7 m x 3,5 m



Accessories



Surface frame PresenceLight

↳ Art.No.: 9070513

Details page 336



theSenda B

↳ Art.No.: 9070985

Details page 341



theSenda S

↳ Art.No.: 9070911

Details page 341



theSenda P

↳ Art.No.: 9070910

Details page 341



QuickSafe

↳ Art.No.: 9070531

Details page 338

Surface frame PresenceLight BK

Details page 336

Surface frame PresenceLight SR

Details page 336

Ceiling installation box 73A

Details page 337

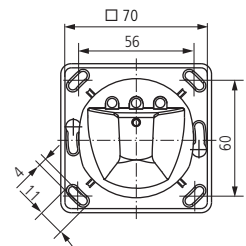
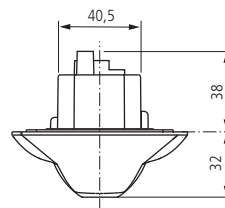
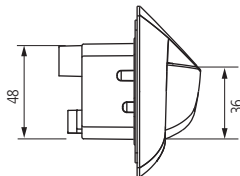
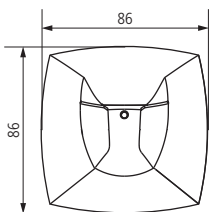
Cover frame PresenceLight 180 SR

Details page 336

Cover frame PresenceLight 180 BK


Details page 336

Scale drawings



Presence and motion detectors

Motion detectors/ Spotlights

	Installation tyoe	Detection angle	Detection range	Channel	Lamp loads	Remote controllable	Type	Page
Outdoor								
	Wall	180°	12 m	Light	2300 W	–	theLuxa E180	150
		180°	12 m	Light	2300 W	–	theLuxa R180	152
		150°	12 m	Light	2300 W	–	theLuxa S150	154
		180°	12 m	Light	2300 W	–	theLuxa S180	154
	Wall and ceiling	360°	16 m	Light	2300 W	–	theLuxa S360	156
		220°	16 m	Light	2300 W	✓	theLuxa P220	158
		300°	16 m	Light	2300 W	✓	theLuxa P300	158
Outdoor with spotlight								
	Wall	–	–	–	–	–	theLeda B20L/B30L/B50L	160
		180°	12 m	Light	1000 W	–	theLeda EC10/E20/EC30	162
		180°	10 m	–	–	–	theLeda S10	164
							theLeda S20	164
		–	–	–	–	–	theLeda S10L	166
							theLeda S20L	166
		180°	12 m	–	–	✓	theLeda P12	168
							theLeda P24	168
		–	–	–	–	–	theLeda P12L	170
							theLeda P24L	170
		180°	10 m	–	–	✓	theLeda D S AL theLeda D SU AL theLeda D U AL theLeda D UD AL	172
		–	–	–	–	–	theLeda D SL AL theLeda D SUL AL theLeda D UL AL theLeda D UDL AL	174
	Floor	180°	12 m	–	–	✓	theLeda D B AL theLeda D B plus AL theLeda D B plus S AL	176
		–	–	–	–	–	theLeda D BL AL theLeda D BL plus AL	176

Presence and motion detectors

Motion detectors/ Spotlights

	Installation tyoe	Detection angle	Detection range	Channel	Lamp loads	Remote controllable	Type	Page
Indoor								
	Ceiling	360°	Ø 8 m	Light	2000 W	–	thePiccola S360-100 DE	178
				Light	2300 W	✓	theMova S360-100 DE	180
				Light Presence	2300 W	✓	theMova S360-101 DE	180
				Light	2300 W	✓	theMova S360-100 AP	182
				Light Presence	2300 W	✓	theMova S360-101 AP	182
			Ø 24 m	Light	2300 W	✓	theMova P360-100 UP	186
			Ø 7 m	Light	2000 W	–	LUXA 103-100 DE WH	188
			Ø 7 m	Light Presence	2000 W	–	LUXA 103-101 DE WH	188
			Ø 7 m	Light	2000 W	–	LUXA 103-100 AP WH	188
			Ø 7 m	Light Presence	2000 W	–	LUXA 103-101 AP WH	188
	Ø 7 m	Light	2000 W	–	LUXA 103-100 C DE WH	190		
	Ø 12 m	Light	2000 W	–	LUXA 103-100 UA WH	192		
	Ø 7 m	Light	2000 W	–	LUXA 103-100 U WH	192		
	Flush-mounted wall installation	200°	8 m	Light	1000 W	–	LUXA 103-200	194
				400 W	–	LUXA 103-200 T	194	

Presence and motion detectors

Motion detectors, Outdoor



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- 180° detection angle

- For outdoor use
- Sensor head can be turned by $\pm 90^\circ$ horizontally and by 30° downwards/upwards
- Adjustable brightness switching value and switch-off delay

- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Area limit via stickers
- Test function for checking detection area
- Single-handed plug-in installation

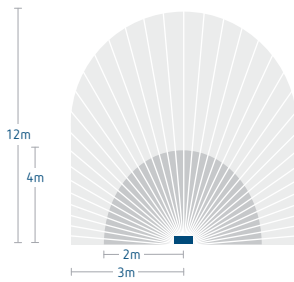
Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	180°	White	theLuxa E180 WH	1010205
			Black	theLuxa E180 BK	1010206

Technical data

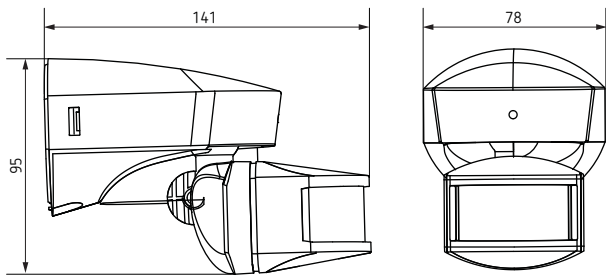
	theLuxa E180
Operating voltage	230 V AC
Frequency	50
Stand-by consumption	< 1 W
Setting range brightness	5 – 1000 lx
Switching capacity light	10 A (at 230 V AC, $\cos \phi = 1$)
Detection angle	180°
Light switch-off delay	5 s – 15 min
Incandescent lamp load	2300 W
Fluorescent lamp load (conventional) parallel-corrected	350 VA, 37 μ F
Fluorescent lamp load (conventional) series-corrected	400 VA
LED lamp < 2 W	50 W
LED lamp 2 – 8 W	150 W
LED lamp > 8 W	150 W
Ambient temperature	-20 °C ... +40 °C
Protection class	II
Type of protection	IP 55

Detection range (Semicircular)



Walking diagonally to the detector
 Walking head on to the detector
 Mounting height: 2.5 m

Scale drawings



Accessories

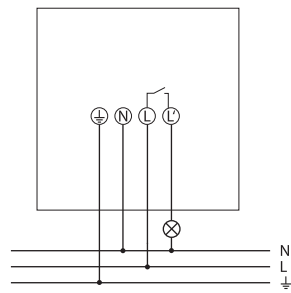


Corner angle theLuxe E WH
 ↳ Art.No.: 9070974
 Details page 338



Corner angle theLuxe E BK
 ↳ Art.No.: 9070975
 Details page 338

Connection diagrams



Presence and motion detectors

Motion detectors, Outdoor



theLuxa R180 WH



theLuxa R180 BK

Description

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- 180° detection angle
- For outdoor use
- Protection from tampering thanks to the robust case design
- Compact dimensions
- Covered operating controls under the secured front cover
- Adjustable brightness switching value and switch-off delay
- Area limit via lens attachment
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Zero-cross switching for relay-saving switching and high lamp loads
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Terminal for protective earth conductor

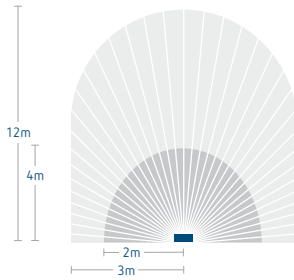
Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	180°	White	theLuxa R180 WH	1010200
			Black	theLuxa R180 BK	1010201

Technical data

	theLuxa R180 WH	theLuxa R180 BK
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	< 0,5 W	
Installation height	2,5–4 m	
Detection angle	180°	
Switching capacity light	10 A (at 230 V AC, cos φ = 1)	
Setting range brightness	2–200 lx/∞	
Light switch-off delay	2 s–30 min	
Incandescent lamp load	2300 W	
Energy saving lamps	500 W	
LED lamp < 2 W	50 W	
LED lamp > 2 W	500 W	
Ambient temperature	–25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

Detection range (Semicircular)



Walking diagonally to the detector
 Walking head on to the detector
 Mounting height: 2.5 m

Accessories



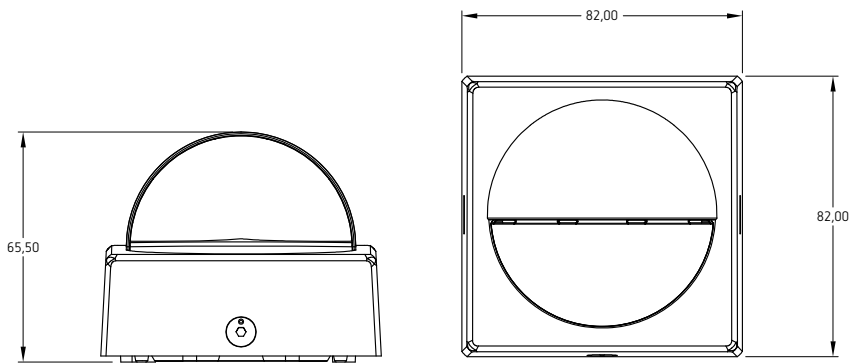
Corner angle 10 WH
 ↳ Art.No.: 9070974
 Details page 340

Spacer 10 WH
 Details page 340

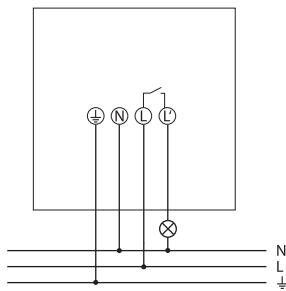
Corner angle 10 BK
 Details page 340

Spacer 10 BK
 Details page 340

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors, Outdoor



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- For outdoor use
- Additional creep under protection
- Sensor head can be turned by $\pm 90^\circ$ horizontally and by 30° downwards
- Adjustable brightness switching value and switch-off delay
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Zero-cross switching for relay-saving switching and high lamp loads
- Teach-in of current brightness value possible
- Pulse function
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Controls are place protected
- Terminal for protective earth conductor

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	150°	White	theLuxa S150 WH	1010500
			Black	theLuxa S150 BK	1010501
		180°	White	theLuxa S180 WH	1010505
			Black	theLuxa S180 BK	1010506

Technical data

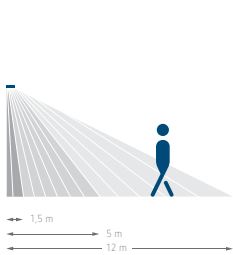
	theLuxa S150	theLuxa S180
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0,9 W	
Setting range brightness	5 – 1000 lx	
Switching capacity light	10 A (at 230 V AC, $\cos \varphi = 1$), 6 A (at 230 V AC, $\cos \varphi = 0.6$), 3 AX (at 230 V AC, $\cos \varphi = 0.3$)	
Detection angle	150°	180°
Light switch-off delay	1 s – 20 min	
Incandescent lamp load	2300 W	
Fluorescent lamp load (conventional) not corrected	400 VA	
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F	
Fluorescent lamp load (conventional) series-corrected	400 VA	
Energy saving lamps	150 W	
LED lamp < 2 W	25 W	
LED lamp > 2 W	200 W	

Presence and motion detectors

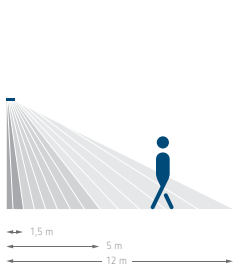
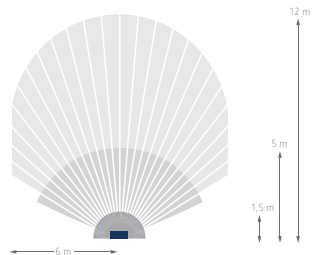
Motion detectors, Outdoor

	theLuxa S150	theLuxa S180
Ambient temperature	-25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

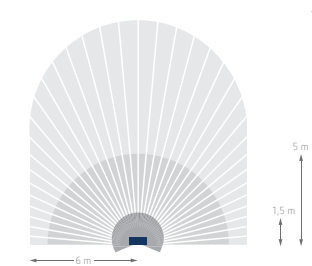
Detection range (Semicircular)



theLuxa S150



theLuxa S180



Mounting height	Walking head on to	Walking diagonally
2 m	3 m	9 m
2,5 m	5 m	12 m
3 m	5 m	12 m
3,5 m	5 m	12 m
4 m	3 m	9 m

- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under protection
- Mounting height: 2.5 m

Accessories



Corner angle theLuxa S WH
↳ Art.No.: 9070902
Details page 339



Spacer theLuxa S WH
↳ Art.No.: 9070906
Details page 339

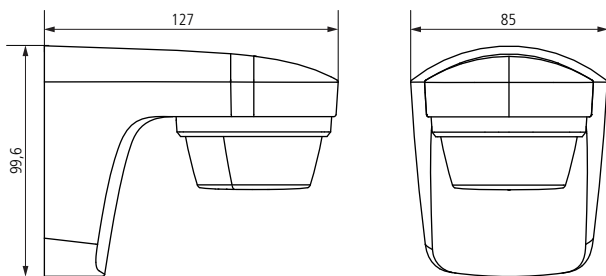


Corner angle theLuxa S BK
↳ Art.No.: 9070903
Details page 338

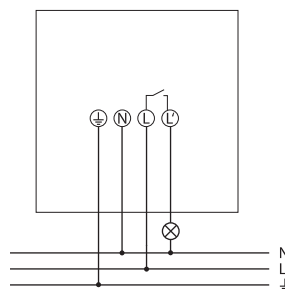


Spacer theLuxa S BK
↳ Art.No.: 9070907
Details page 339

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors, Outdoor



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- For outdoor use
- For installation on walls and ceilings
- 360° detection angle
- Sensor head can be turned by $\pm 90^\circ$ horizontally, by 45° downwards and by 90° upwards

- Adjustable brightness switching value and switch-off delay
- Sensitivity can be reduced to limit detection area
- Area limit via lens attachment
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Zero-cross switching for relay-saving switching and high lamp loads

- Teach-in of current brightness value possible
- Pulse function
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Controls are place protected
- Terminal for protective earth conductor

Product selection

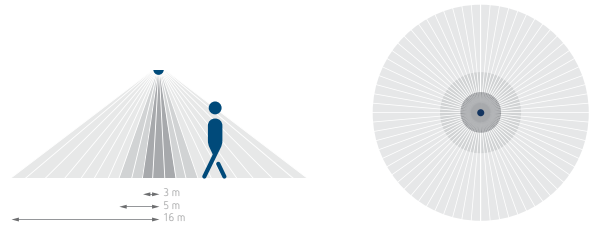
Installation type	Channel	Detection angle	Colour	Type	Article number
Wall and ceiling installation	Light	360°	White	theLuxa S360 WH	1010510
			Black	theLuxa S360 BK	1010511

Technical data

	theLuxa S360
Operating voltage	230 V AC
Frequency	50 Hz
Stand-by consumption	0,5 W
Setting range brightness	5–1000 lx
Switching capacity light	10 A (at 230 V AC, $\cos \varphi = 1$), 6 A (at 230 V AC, $\cos \varphi = 0.6$), 3 AX (at 230 V AC, $\cos \varphi = 0.3$)
Detection angle	360°
Light switch-off delay	1 s–20 min
Incandescent lamp load	2300 W
Fluorescent lamp load (conventional) not corrected	400 VA
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F
Fluorescent lamp load (conventional) series-corrected	400 VA
Energy saving lamps	150 W
LED lamp < 2 W	25 W
LED lamp > 2 W	200 W
Ambient temperature	-25 °C ... +45 °C
Protection class	II
Type of protection	IP 55

Detection range (Round)

Mounting height	Walking head on to	Walking diagonally
2 m	4 m	15 m
2,5 m	5 m	16 m
3 m	5 m	16 m
3,5 m	5 m	10 m
4 m	3 m	8 m



- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under protection
- Mounting height: 2.5 m

Accessories



Corner angle theLuxa S WH

↳ Art.No.: 9070902

Details page 339



Spacer theLuxa S WH

↳ Art.No.: 9070906

Details page 339



Corner angle theLuxa S BK

↳ Art.No.: 9070903

Details page 338

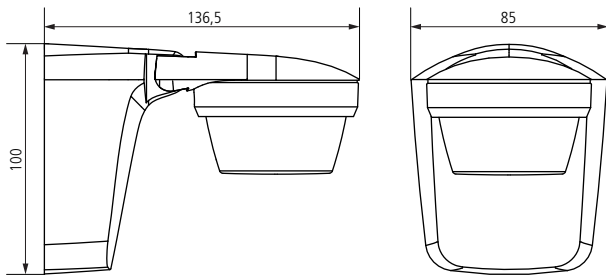


Spacer theLuxa S BK

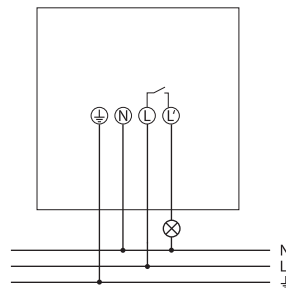
↳ Art.No.: 9070907

Details page 339

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors, Outdoor



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- For outdoor use
- For installation on walls and ceilings
- Additional creep under protection
- For larger, commercial outdoors properties such as offices, public buildings, hotels, schools, car parks and warehouses
- Adjustable brightness switching value and switch-off delay
- Sensor head can be turned by $\pm 90^\circ$ horizontally, by 45° downwards and by 90° upwards
- Remote-controllable
- Sensitivity can be reduced to limit detection area
- Area limit via lens attachment
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Potential-free relay with tungsten pre-contact for relay-saving switching and high lamp loads
- Teach-in of current brightness value possible
- Pulse function
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Controls are place protected
- Terminal for protective earth conductor

theLuxa P220

- 220° detection angle
- Spacer included in delivery

theLuxa P300

- 300° detection angle
- Spacer and corner angle included in delivery

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall and ceiling installation	Light	220°	White	theLuxa P220 WH	1010605
			Black	theLuxa P220 BK	1010606
		300°	White	theLuxa P300 WH	1010610
			Black	theLuxa P300 BK	1010611

Technical data

	theLuxa P220	theLuxa P300
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0,3 W	
Setting range brightness	5 – 1000 lx	
Switching capacity light	10 A (at 230 V AC, $\cos \varphi = 1$), 10 AX (at 230 V AC, $\cos \varphi = 0.3$)	
Detection angle	220°	300°
Light switch-off delay	1 s – 20 min	
Incandescent lamp load	2300 W	
Fluorescent lamp load (conventional) parallel-corrected	1300 VA, 140 μ F	
Energy saving lamps	300 W	
LED lamp < 2 W	60 W	
LED lamp > 2 W	600 W	

Presence and motion detectors

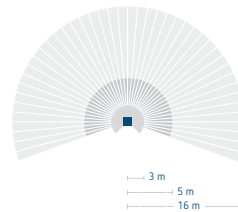
Motion detectors, Outdoor

	theLuxa P220	theLuxa P300
Ambient temperature	-25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

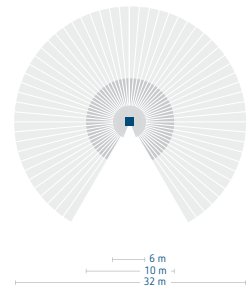
Detection range (Semicircular)

Mounting height	Walking head on to	Walking diagonally
2 m	4 m	12 m
2,5 m	5 m	16 m
3 m	5 m	16 m
3,5 m	5 m	16 m
4 m	4 m	12 m

- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under protection
- Mounting height: 2.5 m



theLuxa P220



theLuxa P300

Accessories



Corner angle theLuxa P WH

↳ Art.No.: 9070904
Details page 339



Corner angle theLuxa P BK

↳ Art.No.: 9070905
Details page 339



theSenda P

↳ Art.No.: 9070910
Details page 341



Spacer theLuxa P WH

↳ Art.No.: 9070908
Details page 339



Spacer theLuxa P BK

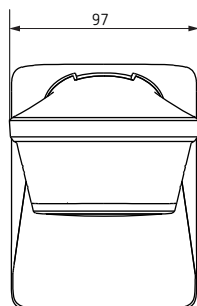
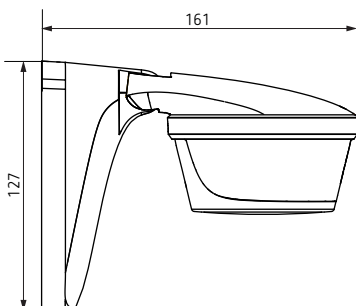
↳ Art.No.: 9070909
Details page 339



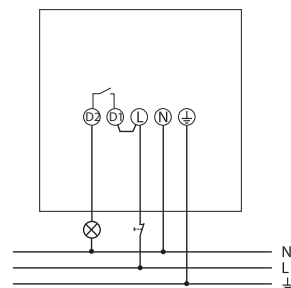
theSenda S

↳ Art.No.: 9070911
Details page 341

Scale drawings



Connection diagrams



Presence and motion detectors

LED spotlights, Motion detector/light sensor as accessory



Description

Common functions

- LED spotlight
- Suitable for outdoor use
- Flexible extension options thanks to optional module with motion detector including switch output or light sensor incl. switch output
- Spotlight can be turned by 360°
- Not dimmable
- Protection rating IP 65

theLeda B20L

- 1 20 W LED spotlight

theLeda B30L

- 1 30 W LED spotlight

theLeda B50L

- 1 50 W LED spotlight

theLeda B motion detector

- 180° detection angle at 12 m range
- Additional light switch output
- Sensor can be turned horizontally by ± 90° and downwards/backwards by 90°
- Protection rating IP 55

theLeda B light sensor

- Duty cycle range: 2, 4, 6, 8 hours, on/permanent on at night
- Switch-on brightness can be set from 2–200 lux
- Additional light switch output
- Protection rating IP 55

Product selection

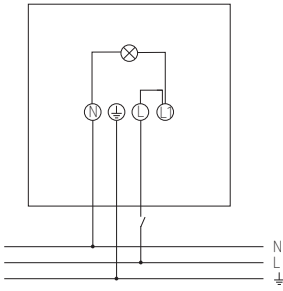
Type of installation	LED output	Colour	Type	Article number
Wall mounting	20 W	White	theLeda B20L WH	1020683
		Black	theLeda B20L BK	1020684
	30 W	White	theLeda B30L WH	1020685
		Black	theLeda B30L BK	1020686
	50 W	White	theLeda B50L WH	1020687
		Black	theLeda B50L BK	1020688

Technical data

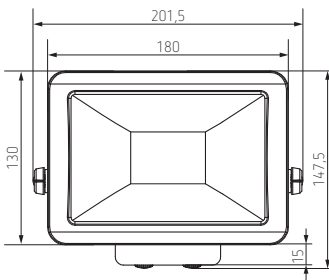
	theLeda B20L	theLeda B30L	theLeda B50L
Operating voltage	230 V AC		
Frequency	50 Hz		
LED output (luminous flux)	1500 lm (WH) 1400 lm (BK)	2100 lm (WH) 2050 lm (BK)	3600 lm (WH) 3500 lm (BK)
Colour temperature	5000 K		
Ambient temperature	-20 °C ... +40 °C		
Protection class	I		
Protection rating	IP 65		

Presence and motion detectors LED spotlights, Motion detector/light sensor as accessory

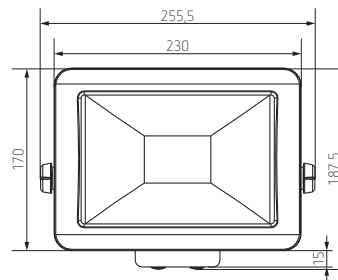
Connection example



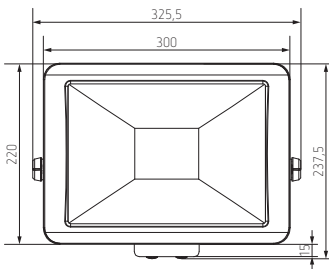
Scale drawings



theLeda B20L



theLeda B30L



theLeda B50L

Accessories



theLeda B WH
motion detector
↳ Art.No.: 9070760
Details page 340



theLeda B BK
motion detector
↳ Art.No.: 9070761
Details page 340



theLeda B WH
light sensor
↳ Art.No.: 9070762
Details page 340



theLeda B BK
light sensor
↳ Art.No.: 9070763
Details page 341

Presence and motion detectors

Spotlights, with motion detector



Description

Common functions

- LED spotlight with motion detector
- 1 LED spot with 10 W
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- 180° detection angle at a detection range of 12 m
- Additional light switch output (relay 230 V AC)
- Sensor head can be turned by $\pm 90^\circ$ horizontally and 90° downwards

- Spotlight can be swivelled 45° downwards and 90° upwards
- Robust design with polycarbonate housing, stainless-steel mounting brackets and screws, aluminium cooling elements that are resistant to sea water and fully coated electronics
- Area limit via stickers
- Adjustable lux value and switch-off delay
- Settings can be changed without tools
- Manually switching on possible
- Optional purely twilight-dependent control
- Not suitable for dimming application

theLeda EC10

- 1 LED spot with 10 W

theLeda EC20

- 1 LED spot with 20 W

theLeda EC30

- 1 LED spot with 30 W

Product selection

Installation type	Detection angle	LED output	Colour	Type	Article number
Wall installation	180°	10 W, 750 lm	White	theLeda EC10 WH	1020811
			Black	theLeda EC10 BK	1020812
	20 W, 1500 lm	White	theLeda EC20 WH	1020813	
		Black	theLeda EC20 BK	1020814	
	30 W, 2250 lm	White	theLeda EC30 WH	1020815	
		Black	theLeda EC30 BK	1020816	

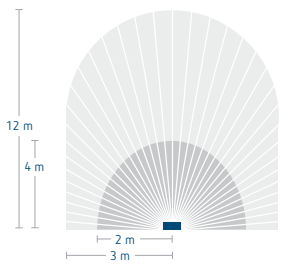
Technical data

	theLeda EC
Operating voltage	230 V AC
Frequency	50 – 60 Hz
Stand-by consumption	0,5 W
Colour	White
Setting range brightness	2 – 200 lx
Colour temperature	4000 K, neutral white
Detection angle	180°
Installation height	2,5 m
Switching output	Not potential-free (230 V)

Presence and motion detectors Spotlights, with motion detector

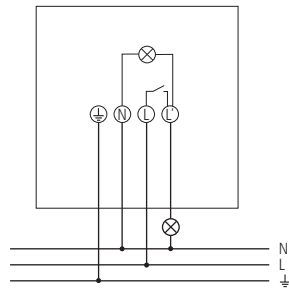
	theLeda EC
Light switch-off delay	5 s – 10 min
Incandescent/halogen lamp load	1000 W
LED lamp < 2 W	15 W
LED lamp > 2 W	50 W
Ambient temperature	-20 °C ... +40 °C
Protection class	I
Type of protection	IP 55

Detection range



- Walking diagonally to the detector
 - Walking head on to the detector
- Mounting height: 2.5 m

Connection diagrams



Accessories

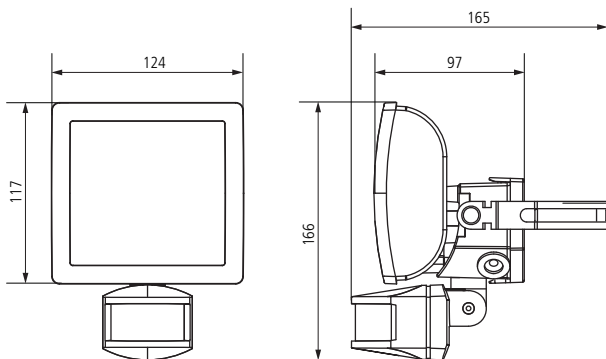


Swivelling holder
theLeda EC WH
Details page 341

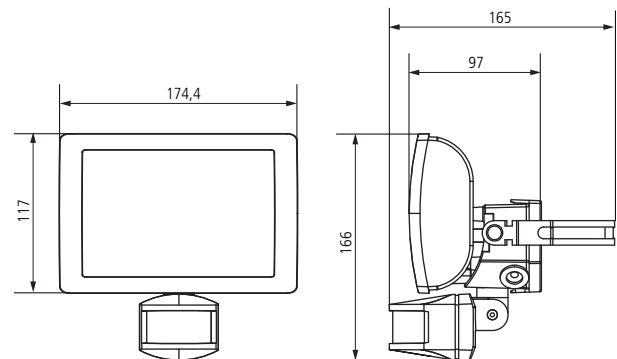


Swivelling holder
theLeda EC BK
Details page 341

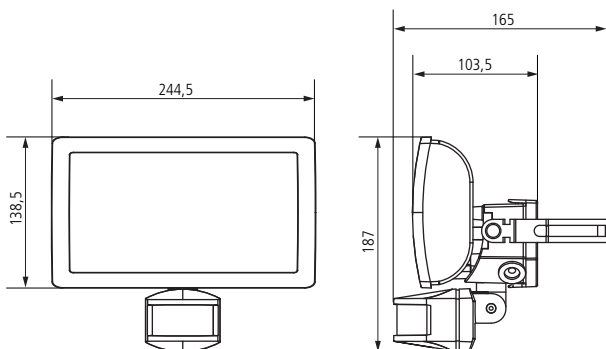
Dimensions



theLeda EC10



theLeda EC20



theLeda EC30

Presence and motion detectors

Spotlights, with motion detector



Description

Common functions

- LED spotlight with motion detector
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- 180° detection angle at a detection range of 10 m
- Area limit via lens attachment
- Orientation light with configurable dimming level

- Short and extended function via manual control system
- Integrated heat sink in housing color
- Direct-LED for maximum light output
- High-tech matrix-LED module
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Adjustable lux value and switch-off delay
- Setting elements easily accessible on the side

theLeda S10

- 1 LED spot with 10 W (equivalent to 140 W Halogen spotlight)
- Spotlight can be swivelled $\pm 40^\circ$ horizontally, and adjusted 70° downwards, wall-wash functionality by swivelling 180°

theLeda S20

- 2 LED spot with 10 W each (equivalent to 2x140 W Halogen spotlight)
- Spotlights can be swivelled $\pm 20^\circ$ horizontally, and adjusted 70° downwards

Product selection

Installation type	LED	Colour temperature	Colour	Type	Article number
Wall installation	10 W	4000 K, neutral white	White	theLeda S10 WH	1020921
			Black	theLeda S10 BK	1020922
		3000 K, warm white	White	theLeda S10 W WH	1020931
			Black	theLeda S10 W BK	1020932
	2 x 10 W	4000 K, neutral white	White	theLeda S20 WH	1020923
			Black	theLeda S20 BK	1020924
3000 K, warm white		White	theLeda S20 W WH	1020933	
		Black	theLeda S20 W BK	1020934	

Technical data

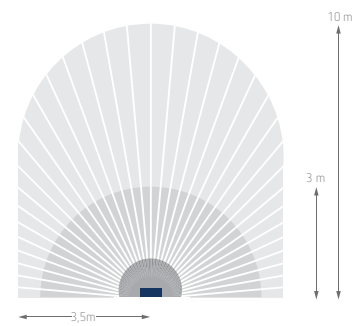
	theLeda S10	theLeda S10 W	theLeda S20	theLeda S20 W
Operating voltage	230 V AC			
Frequency	50–60 Hz			
Stand-by consumption	0,4 W			
Setting range brightness	2–200 lx			
LED output (lighting current)	840 lm		2 x 840 lm	

Presence and motion detectors

Spotlights, with motion detector

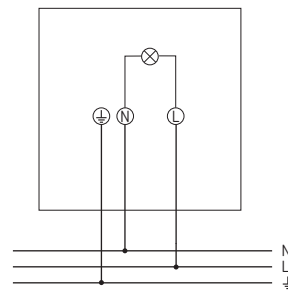
	theLeda S10	theLeda S10 W	theLeda S20	theLeda S20 W
Colour temperature	4000 K, neutral white	3000 K, warmwhite	4000 K, neutral white	3000 K, warmwhite
Detection angle	180°			
Installation height	2–4 m			
Light switch-off delay	2 s–30 min			
Ambient temperature	–20 °C ... +45 °C			
Protection class	I			
Type of protection	IP 55			

Detection range (Semicircular)



- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under protection
- Mounting height: 2.5 m

Connection diagrams



Accessories



Corner angle 10 WH
↳ Art.No.: 9070969
Details page 340



Spacer 10 WH
↳ Art.No.: 9070971
Details page 340

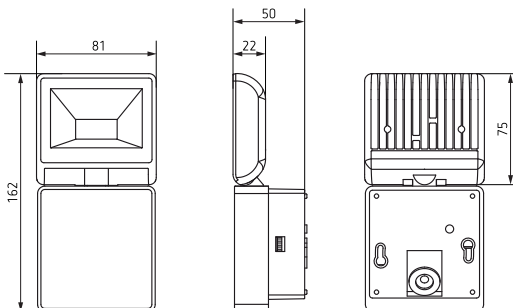


Corner angle 10 BK
↳ Art.No.: 9070987
Details page 340

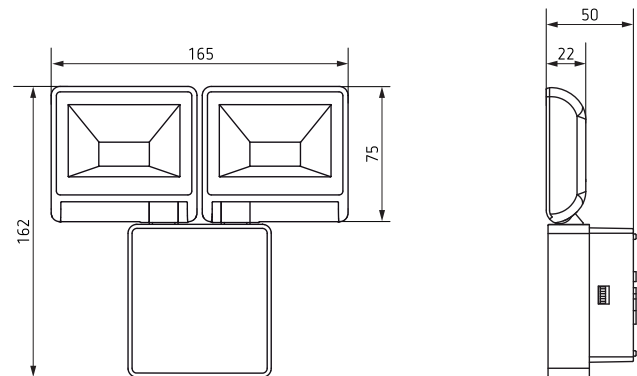


Spacer 10 BK
↳ Art.No.: 9070988
Details page 340

Dimensions



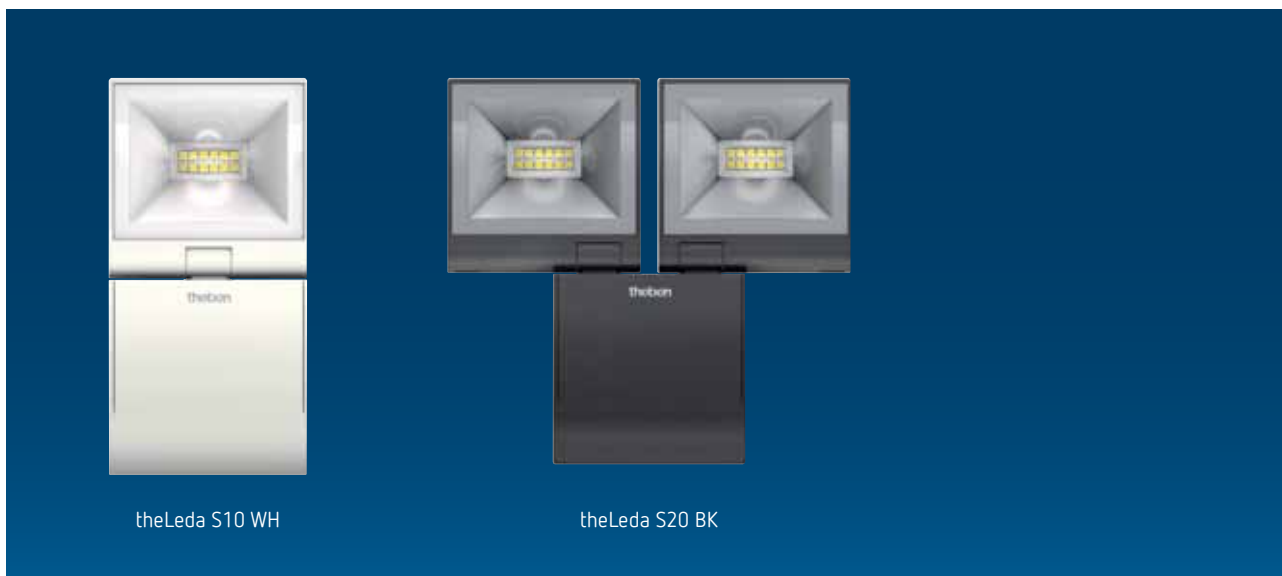
theLeda S10



theLeda S20

Presence and motion detectors

Spotlights



Description

Common functions

- LED spotlight
- Suitable for outdoor use
- Single-handed plug-in installation
- Integrated heat sink in housing color
- Direct-LED for maximum light output
- High-tech matrix-LED module

theLeda S10L

- 1 LED spot with 10 W (equivalent to 140 W Halogen spotlight)
- Spotlight can be swivelled $\pm 40^\circ$ horizontally, and adjusted 70° downwards, wall-wash functionality by swivelling 180°

theLeda S20L

- 2 LED spot with 10 W each (equivalent to 2x140 W Halogen spotlight)
- Spotlights can be swivelled $\pm 20^\circ$ horizontally, and adjusted 70° downwards

8

Product selection

Installation type	LED	Colour	Type	Article number
Wall installation	10 W	White	theLeda S10L WH	1020721
		Black	theLeda S10L BK	1020722
	2 x 10 W	White	theLeda S20L WH	1020723
		Black	theLeda S20L BK	1020724

Technical data

	theLeda S10L	theLeda S20L
Operating voltage	230 V AC	
Frequency	50–60 Hz	
LED output (lighting current)	840 lm	2 x 840 lm
Colour temperature	4000 K, neutral white	
Installation height	2–4 m	
Ambient temperature	–20 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

Accessoires



Corner angle 10 WH
↳ Art.No.: 9070969
Details page 340



Spacer 10 WH
↳ Art.No.: 9070971
Details page 340

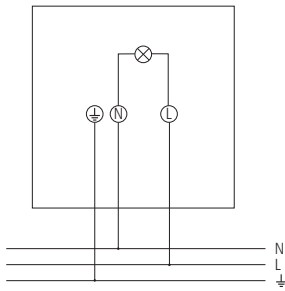


Corner angle 10 BK
↳ Art.No.: 9070987
Details page 340

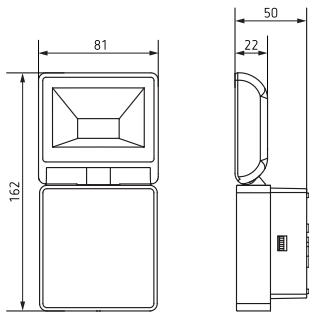


Spacer 10 BK
↳ Art.No.: 9070988
Details page 340

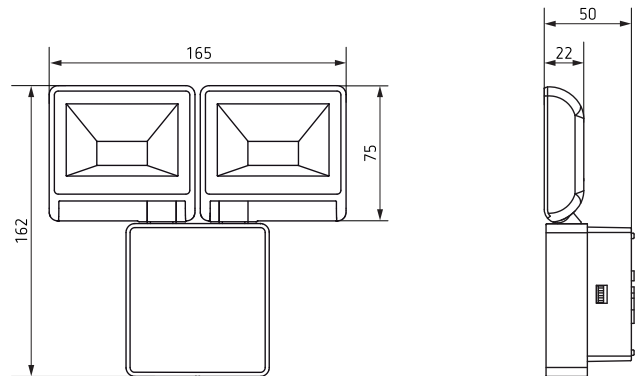
Connection diagrams



Dimensions



theLeda S10L



theLeda S20L

Presence and motion detectors

Spotlights, with motion detector



theLeda P12 WH

theLeda P24 AL

Description

Common functions

- LED spotlight with motion detector
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- 180° detection angle at a detection range of 12 m and creep under protection
- Diffused glare-free light with aura effect
- Functions teach-in, test, twilight switch, dimmable orientation light and night interruption adjustable
- Master/master switching
- Area limit via lens attachment

- Controls are place protected
- Remote controllable with optionally remote controls theSenda P and theSenda S
- Back side made of high-quality aluminum die-cast for an optimally cooling of the high-power LEDs

theLeda P12

- 11 W (900 lm), equivalent to 140 W Halogen spotlight
- Spotlight can be swivelled 35° left/right, 60° upwards/downwards and 180° backwards
- Spacer included in delivery

theLeda P24

- 20 W (2 x 900 lm), equivalent to 2 x 140 W Halogen spotlight
- Spotlight can be swivelled 30° backwards, 60° downwards
- Spacer and corner angle included in delivery

Product selection

Installation type	LED	Colour	Type	Article number
Wall installation	11 W (900 lm)	White	theLeda P12 WH	1020941
		Aluminium	theLeda P12 AL	1020942
	20 W (2 x 900 lm)	White	theLeda P24 WH	1020943
		Aluminium	theLeda P24 AL	1020944

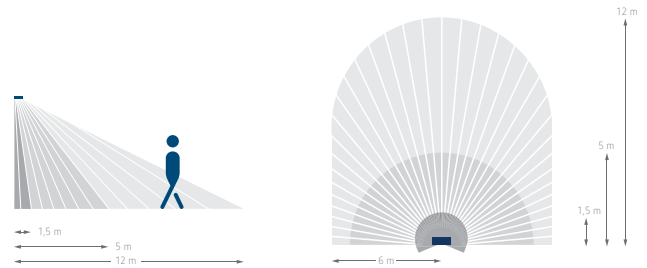
Technical data

	theLeda P12	theLeda P24
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0,4 W	
Setting range brightness	5–800 lx or just presence dependent	
LED output (lighting current)	11 W (900 lm)	20 W (2 x 900 lm)
Colour temperature	4000 K, neutral white	
Detection angle	180°	
Installation height	1,8–2,5 m	
Light switch-off delay	10 s–20 min	
Ambient temperature	–25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

Presence and motion detectors Spotlights, with motion detector

Detection range (Semicircular)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	5 m	12 m
2,5 m	4 m	10 m
3 m	4 m	8 m
3,5 m	4 m	6 m
4 m	2 m	4 m



Accessories



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

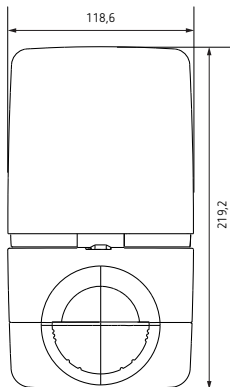
Corner angle 10 WH
Details page 340

Spacer 10 WH
Details page 340

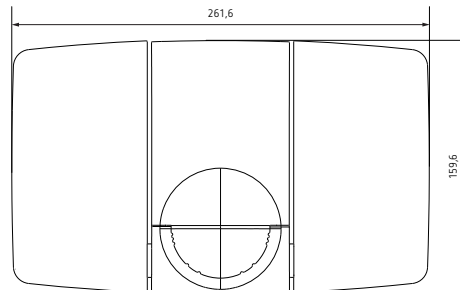
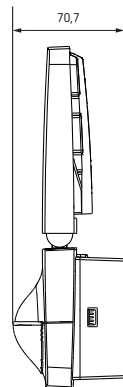
Corner angle 10 AL
Details page 340

Spacer 10 AL
Details page 340

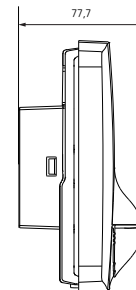
Scale drawings



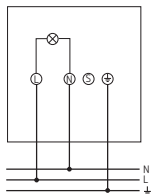
theLeda P12



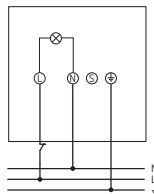
theLeda P24



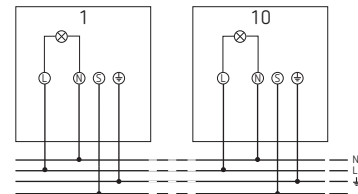
Connection diagrams



theLeda P12, theLeda P24
(Standard operation)



theLeda P12, theLeda P24 (Manual
operation via circuit breaker button)



theLeda P12, theLeda P24
(Connection Master/Master)

Presence and motion detectors

Spotlights



theLeda P12L WH

theLeda P24L AL

Description

Common functions

- LED spotlight
- Suitable for outdoor use
- Diffused glare-free light with aura effect
- Slave-function
- Back side made of high-quality aluminum die-cast for an optimally cooling of the high-power LEDs

theLeda P12L

- 11 W (900 lm), equivalent to 140 W Halogen spotlight
- Spotlight can be swivelled 35° left/right, 60° upwards/downwards and 180° backwards
- Spacer included in delivery

theLeda P24L

- 20 W (2 x 900 lm), equivalent to 2 x 140 W Halogen spotlight
- Spotlight can be swivelled 30° backwards, 60° downwards
- Spacer and corner angle included in delivery

8

Product selection

Installation type	LED	Colour	Type	Article number
Wall installation	11 W (900 lm)	White	theLeda P12L WH	1020741
		Aluminium	theLeda P12L AL	1020742
	20 W (2 x 900 lm)	White	theLeda P24L WH	1020743
		Aluminium	theLeda P24L AL	1020744

Technical data

	theLeda P12L	theLeda P24L
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0,4 W	
LED output (lighting current)	11 W (900 lm)	20 W (2 x 900 lm)
Colour temperature	4000 K, neutral white	
Installation height	1,8–2,5 m	
Ambient temperature	–25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

Accessories



Corner angle 10 WH
↳ Art.No.: 9070969
Details page 340



Spacer 10 WH
↳ Art.No.: 9070971
Details page 340

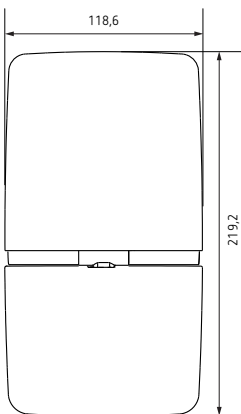


Corner angle 10 AL
↳ Art.No.: 9070970
Details page 340

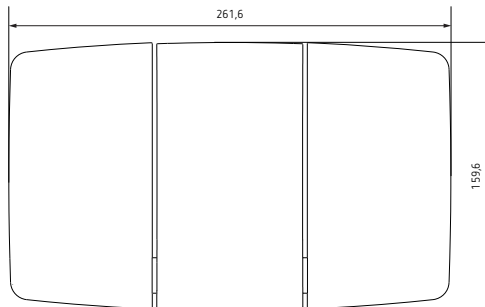
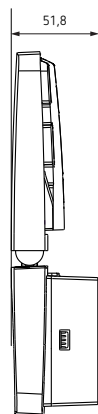


Spacer 10 AL
↳ Art.No.: 9070972
Details page 340

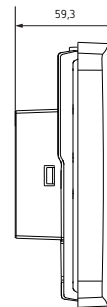
Scale drawings



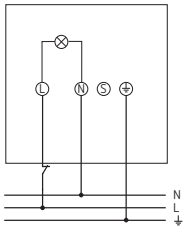
theLeda P12L



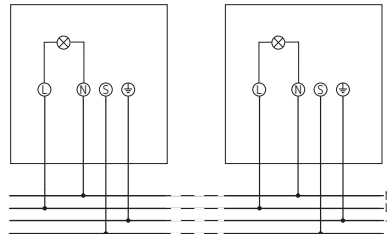
theLeda P24L



Connection diagrams



theLeda P12L, theLeda P24L



theLeda P12, theLeda P24L
(Connection Master/Slave)

Presence and motion detectors

Spotlights



Description

Common functions

- Stylish LED light with motion detector (PIR)
- High-quality housing made from anodised extruded-aluminium profiles
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- 180° detection angle at 10 m range
- Teach-in, test, twilight switch, dimmable orientation light and self-calculating night interruption functions can be adjusted
- Can be adjusted via the theSenda S and P remote controls, via theSenda B and the theSenda Plug app, or by setting the potentiometer on the device itself

- High IP 55 protection rating for outdoor installation
- Easy installation with socket
- Wireless connectivity
- Exceptionally efficient thanks to high light output
- Long-lasting LEDs: service life of 50,000 hours
- Manual control via an interrupter switch (PERM ON 6 h)

theLeda D S AL

- 8.5 W LED light
- Light emission at front (spotlight)

theLeda D SU AL

- 14 W LED light
- Light emission at front (spotlight) and at top (uplighter)

theLeda D U AL

- 8.5 W LED light
- Light emission at top (uplighter)

theLeda D UD AL

- 11.5 W LED light
- Light emission at top (uplighter) and bottom (downlighter)

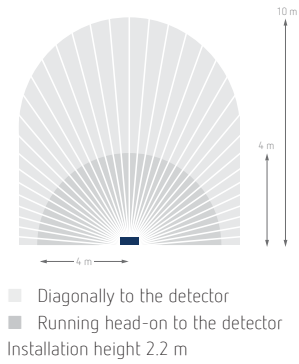
Product selection

Type of installation	Light emission	Colour	Type	Article number
Wall mounting	Spotlight (at front)	Aluminium	theLeda D S AL	1020901
	Spot/up-light (at front/top)	Aluminium	theLeda D SU AL	1020902
	Up-light (at top)	Aluminium	theLeda D U AL	1020903
	Up-light/down-light (at top/bottom)	Aluminium	theLeda D UD AL	1020904

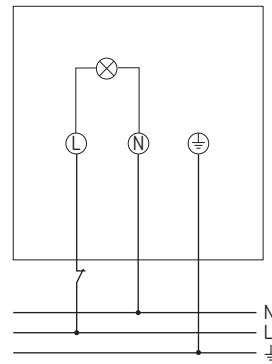
Technical data

	theLeda D S AL	theLeda D SU AL	theLeda D U AL	theLeda D UD AL
Operating voltage	230 V AC			
Frequency	50–60 Hz			
Stand-by consumption	0,5 W			
Setting range brightness	2–800 lx			
LED output (lighting current)	760 lm	760 lm 475 lm	760 lm	2 x 475 lm
Colour temperature	3000 K, warmwhite			
Light switch-off delay	10 s–20 min			
Ambient temperature	–25 °C ... +45 °C			
Protection class	II			
Type of protection	IP 55			

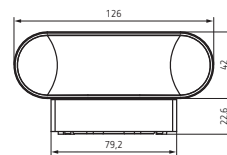
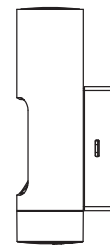
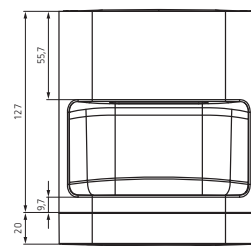
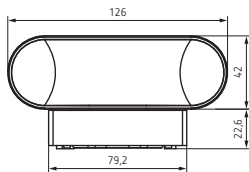
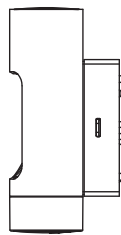
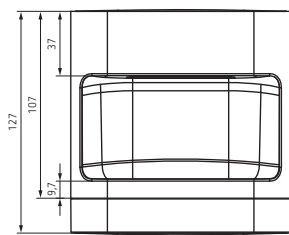
Detection area (semicircle)



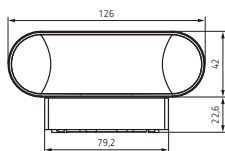
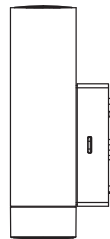
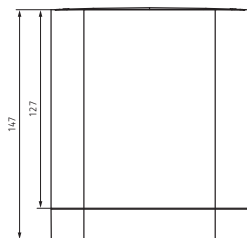
Connection example



Scale drawings

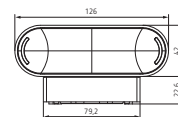
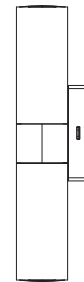
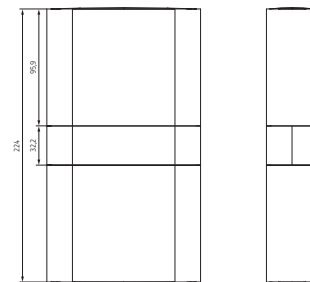


theLeda D S AL



theLeda D U AL

theLeda D SU AL



theLeda D UD AL

Accessories



theSenda P

↳ Art.No.: 9070910
Details page 341



theSenda S

↳ Art.No.: 9070911
Details page 341



theSenda B

↳ Art.No.: 9070985
Details page 341

Spacer 10 AL
Details page 340

Corner angle 10 AL
Details page 340

Presence and motion detectors

Spotlights



Description

Common functions

- Stylish LED light
- High-quality housing made from anodised extruded-aluminium profiles
- Suitable for outdoor use
- High IP 55 protection rating for outdoor installation
- Easy installation with socket
- Wireless connectivity
- Exceptionally efficient thanks to high light output
- Long-lasting LEDs: service life of 50,000 hours

theLeda D SL AL

- Stylish LED light 8.5 W
- Light emission at front (spot-light)

theLeda D SUL AL

- Stylish LED light 14 W
- Light emission at front (spot-light) and at top (up-light)

theLeda D UL AL

- Stylish LED light 8.5 W
- Light emission at top (up-light)

theLeda D UDL AL

- Stylish LED light 11.5 W
- Light emission at top (up-light) and bottom (down-light)

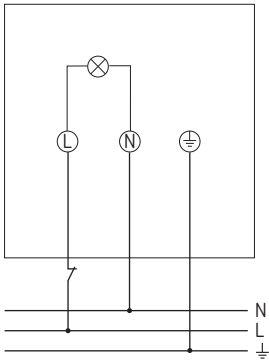
Product selection

Type of installation	Light emission	Colour	Type	Article number
Wall mounting	Spotlight (at front)	Aluminium	theLeda D SL AL	1020701
	Spot/up-light (at front/top)	Aluminium	theLeda D SUL AL	1020702
	Up-light (at top)	Aluminium	theLeda D UL AL	1020703
	Up-light/down-light (at top/bottom)	Aluminium	theLeda D UDL AL	1020704

Technical data

	theLeda D SL AL	theLeda D SUL AL	theLeda D UL AL	theLeda D UDL AL
Operating voltage	230 V AC			
Frequency	50–60 Hz			
Stand-by consumption	0,5 W			
LED output (lighting current)	760 lm	760 lm 475 lm	760 lm	2 x 475 lm
Colour temperature	3000 K, warmwhite			
Ambient temperature	–25 °C ... +45 °C			
Protection class	II			
Type of protection	IP 55			

Connection example



Accessories

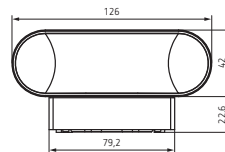
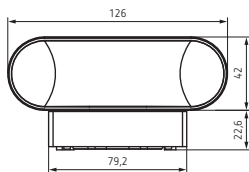
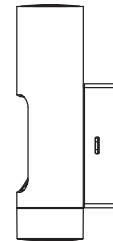
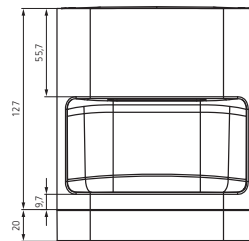
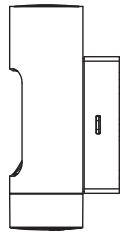
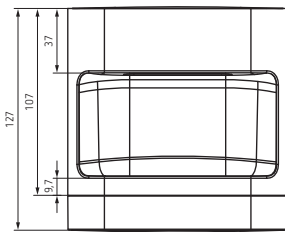


Corner angle 10 AL
↳ Art.No.: 9070970
Details page 340



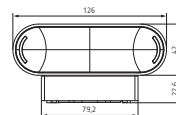
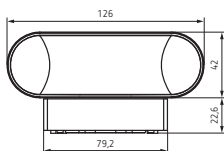
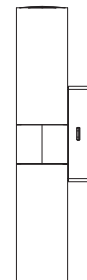
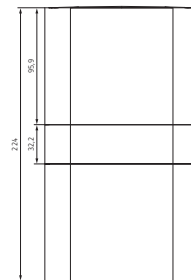
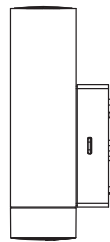
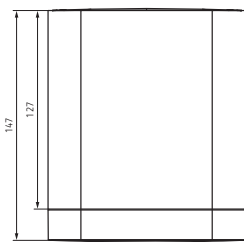
Spacer 10 AL
↳ Art.No.: 9070972
Details page 340

Scale drawings



theLeda D SL AL

theLeda D SUL AL

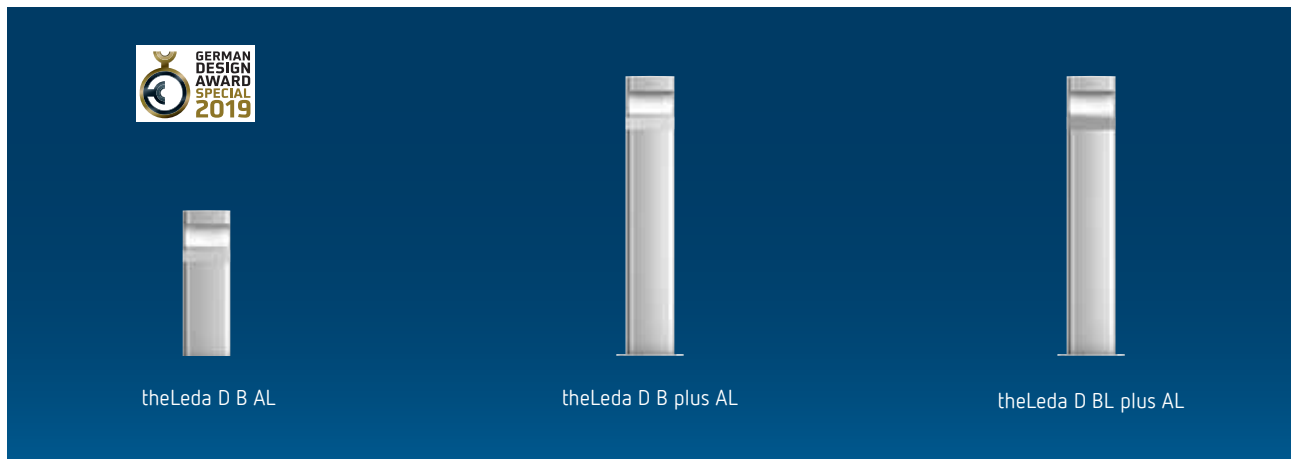


theLeda D UL AL

theLeda D UDL AL

Presence and motion detectors

LED bollard light, with/without motion detector



Description

Common functions (theLeda D with motion detector)

- Stylish LED bollard light with motion detector (PIR)
- High-quality housing made from anodised extruded-aluminium profiles
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- 180° detection angle with 12 m diameter, optimised for paths
- Teach-in, test, twilight switch, dimmable orientation light and self-calculating night interruption functions can be adjusted
- Can be adjusted via the theSenda S and P remote controls, via theSenda B and the theSenda Plug app, or by setting the potentiometer on the device itself
- High IP 55 protection rating for outdoor installation (with IP 54 socket)

- Wireless connectivity, can only be set via theSenda B with theSenda Plug
- Exceptionally efficient thanks to high light output
- Long-lasting LEDs: service life of 50,000 hours
- Manual control via an interrupter switch (PERM ON 6 h)

theLeda D B AL

- 8,5 W short LED bollard light
- Light emission at front (spotlight)

theLeda D B plus AL

- 8,5 W long LED bollard light
- Light emission at front (spotlight)

theLeda D B plus S AL

- 8,5 W long LED bollard light
- Light emission at front (spotlight)
- With socket on the back of the housing

Common functions (theLeda D without motion detector)

- Stylish LED bollard light
- High-quality housing made from anodised extruded-aluminium profiles
- Suitable for outdoor use
- High IP 55 protection rating for outdoor installation
- Wireless connectivity, can only be set via theSenda B with theSenda Plug
- Exceptionally efficient thanks to high light output
- Long-lasting LEDs: service life of 50,000 hours

theLeda D BL AL

- 8,5 W short LED bollard light
- Light emission at front (spotlight)

theLeda D BL plus AL

- 8,5 W long LED bollard light
- Light emission at front (spotlight)

Product selection

Type of installation	With motion detector	Version	With socket	Colour	Type	Article number
Floor installation	✓	Short	-	Aluminium	theLeda D B AL	1020905
		Long	-	Aluminium	theLeda D B plus AL	1020906
		Long	✓	Aluminium	theLeda D B plus S AL	1020907
	-	Short	-	Aluminium	theLeda D BL AL	1020705
		Long	-	Aluminium	theLeda D BL plus AL	1020706

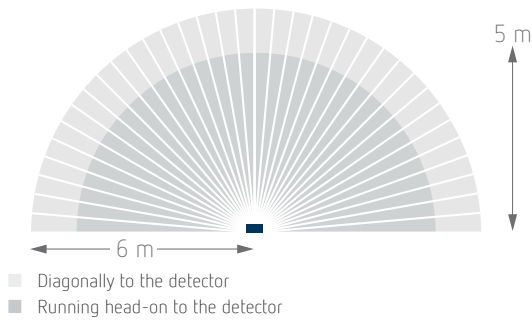
Technical data

	theLeda D B AL	theLeda D B plus AL	theLeda D B plus S AL	theLeda D BL AL	theLeda D BL plus AL
Operating voltage	230 V AC				
Frequency	50–60 Hz				
Setting range brightness	2–800 lx			-	
LED output (lighting current)	760 lm				
Colour temperature	3000 K, warmwhite				
Light switch-off delay	10 s–20 min			-	
Ambient temperature	-25 °C ... +45 °C				

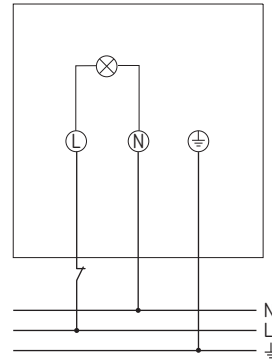
Presence and motion detectors LED bollard light, with/without motion detector

	theLeda D B AL	theLeda D B plus AL	theLeda D B plus S AL	theLeda D BL AL	theLeda D BL plus AL
Protection class	II		I	II	
Type of protection	IP 55		IP 54	IP 55	

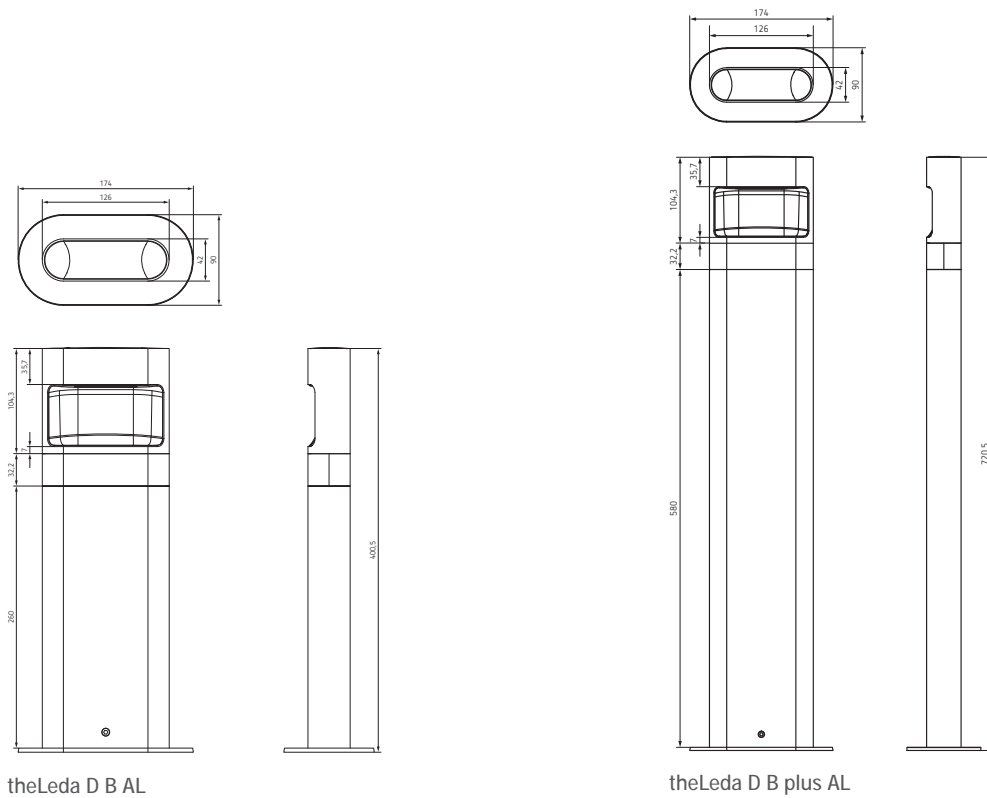
Detection area (semicircle)



Connection example



Scale drawings



Accessories



theSenda B/P
↳ Art.No.: 9070985/9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341



theLeda D B ground spike
↳ Art.No.: 9070765
Details page 341

Presence and motion detectors

Motion detectors



thePiccola S360-100 DE WH

Description

- Passive infra-red motion detector for ceiling installation
- Circular detection area 360°, up to Ø 8 m (50 m²)
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Extension of detection area via Master/ Slave switching
- Test mode for checking function and detection area
- Diameter of ceiling cutout 34–36 mm
- Ready for immediate use due to factory presetting

Product selection

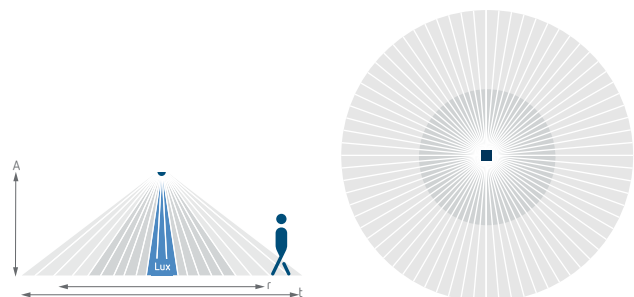
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110–240 V AC	White	thePiccola S360-100 DE WH	1060200

Technical data

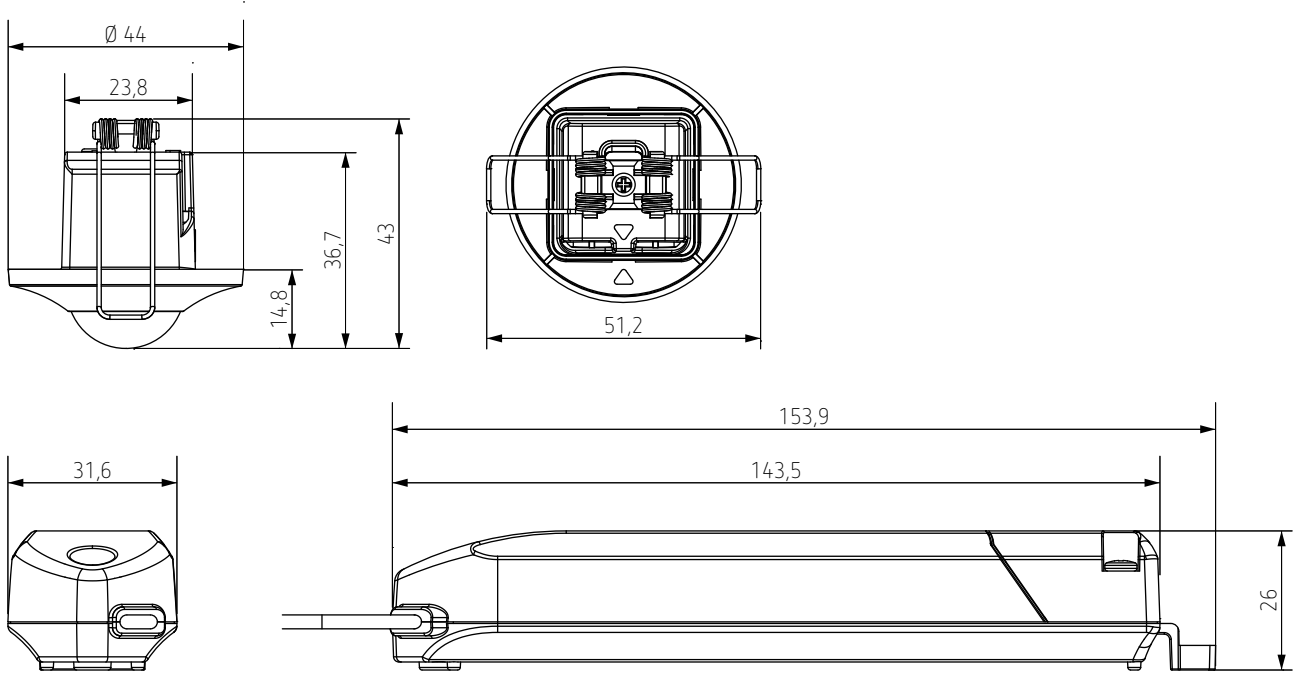
thePiccola S360-100 DE WH			
Operating voltage	110–240 V AC	Fluorescent lamp load (conventional) parallel-corrected	1300 VA, 140 µF
Frequency	50–60 Hz	Fluorescent lamp load (conventional) series-corrected	2000 VA
Installation height	2–4 m	Fluorescent lamp load (electronic ballast)	1200 W
Power consumption	0,4 W	LED lamp < 2 W	55 W
Setting range brightness	5–1000 lx	LED lamp 2–8 W	180 W
Light switch-off delay	30 s–30 min	LED lamp > 8 W	200 W
Incandescent/halogen lamp load	2000 W	Ambient temperature	–20 °C ... +50 °C
Fluorescent lamp load (conventional) not corrected	2000 VA	Type of protection	IP 44 (Sensor), IP 20 (power module) (when mounted)

Detection range (Round)

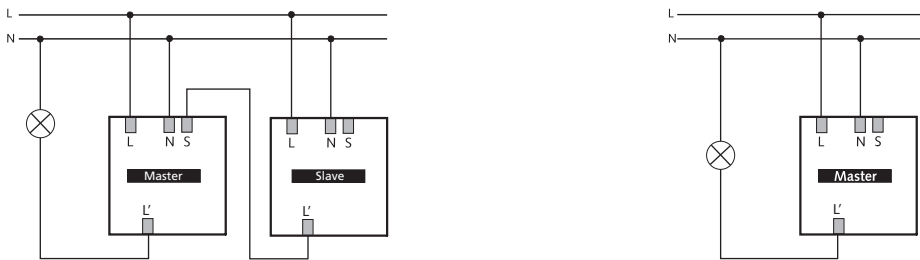
Mounting height (A)	Head on to (r)	Diagonally (t)
2,5 m	3 m² 2 m	50 m² 8 m



Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors



Description

- Passive infra-red motion detector for ceiling installation
 - Circular detection area 360°, up to Ø 9 m (64 m²)
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Channel A light: relay, 230 V
 - Operation as fully automatic device
 - Brightness switching value configurable, teach-in function
 - Pulse function for staircase light time switch
 - Detection sensitivity configurable
 - Test mode for checking function and detection area
 - Ready for immediate use due to factory presetting (Brightness switching value 300 lux, Time delay 10 min)
- One of these optional remote controls is required for changing the values and attitudes:
 - Management remote control theSenda B
 - Installation remote control theSenda P
 - Optional user remote control:
 - theSenda S
- theMova S360-100 DE
- 1 channel light
 - Automatic motion and brightness-dependent control for lighting
- theMova S360-101 DE
- 1 channel light and 1 channel presence
 - Automatic motion and brightness-dependent control for lighting and HVAC
 - Channel H, presence: relay, floating e.g. for HVAC control
 - Time delay configurable

Product selection

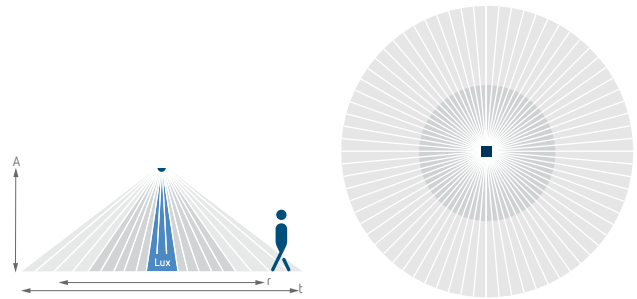
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	White	theMova S360-100 DE WH	1030560
			Grey	theMova S360-100 DE GR	1030561
	Light Presence	230 V AC	White	theMova S360-101 DE WH	1030565
			Grey	theMova S360-101 DE GR	1030566

Technical data

	theMova S360-100 DE	theMova S360-101 DE
Operating voltage	230 V AC	
Frequency	50 Hz	
Recommended installation height	2 – 3,5 m	
Power consumption	0,5 W	
Setting range brightness	30 – 3000 lx	
Light switch-off delay	10 s – 60 min	
Type of contact light	Relay 230 V / 10 A µ-contact	
Incandescent/halogen lamp load	2300 W	
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)	
Inrush current	max. 400 A / 200 µs	
LED lamp < 2 W	25 W	
LED lamp > 2 W	70 W	
Switching capacity presence	–	50 W / 50 VA
Ambient temperature	– 15 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Round)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	5 m ² 2,5 m	38 m ² 7 m
2,5 m	7 m ² 3 m	38 m ² 7 m
3 m	13 m ² 4 m	50 m ² 8 m
3,5 m	13 m ² 4 m	50 m ² 8 m
4 m	13 m ² 4 m	64 m ² 9 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

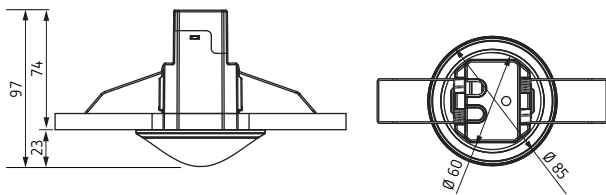


theSenda P
↳ Art.No.: 9070910
Details page 341

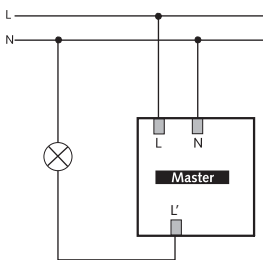


theSenda S
↳ Art.No.: 9070911
Details page 341

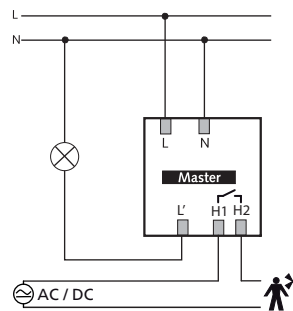
Scale drawings



Connection diagrams



theMova S360-100 DE



theMova S360-101 DE

Presence and motion detectors

Motion detectors



Description

- Passive infra-red motion detector for ceiling installation
 - Circular detection area 360°, up to Ø 9 m (64 m²)
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Channel A light: relay, 230 V
 - Operation as fully automatic device
 - Brightness switching value configurable, teach-in function
 - Pulse function for staircase light time switch
 - Detection sensitivity configurable
 - Test mode for checking function and detection area
 - Ready for immediate use due to factory presetting (Brightness switching value 300 lux, Time delay 10 min)
- One of these optional remote controls is required for changing the values and attitudes:
 - Management remote control theSenda B
 - Installation remote control theSenda P
 - Optional user remote control:
 - theSenda S
- theMova S360-100 AP
- 1 channel light
 - Automatic motion and brightness-dependent control for lighting
- theMova S360-101 AP
- 1 channel light and 1 channel presence
 - Automatic motion and brightness-dependent control for lighting and HVAC
 - Channel H, presence: relay, floating e.g. for HVAC control
 - Time delay configurable

Product selection

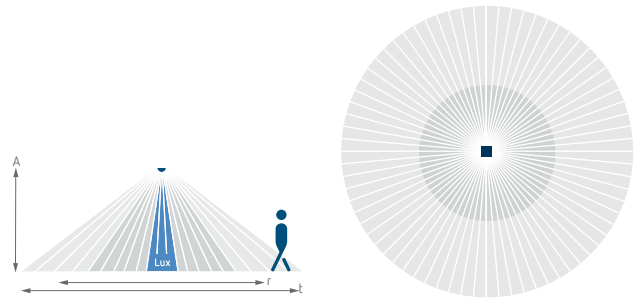
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	White	theMova S360-100 AP WH	1030550
			Grey	theMova S360-100 AP GR	1030551
	Light Presence	230 V AC	White	theMova S360-101 AP WH	1030555
			Grey	theMova S360-101 AP GR	1030556

Technical data

	theMova S360-100 AP	theMova S360-101 AP
Operating voltage	230 V AC	
Frequency	50 Hz	
Recommended installation height	2–3,5 m	
Power consumption	0,5 W	
Setting range brightness	30–3000 lx	
Light switch-off delay	10 s–60 min	
Type of contact light	Relay 230 V/10 A µ-contact	
Incandescent/halogen lamp load	2300 W	
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)	
Inrush current	max. 400 A/200 µs	
LED lamp < 2 W	25 W	
LED lamp > 2 W	70 W	
Switching capacity presence	–	50 W/50 VA
Ambient temperature	– 15 °C ... +50 °C	
Type of protection	IP 54	

Detection range (Round)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	5 m ² 2,5 m	38 m ² 7 m
2,5 m	7 m ² 3 m	38 m ² 7 m
3 m	13 m ² 4 m	50 m ² 8 m
3,5 m	13 m ² 4 m	50 m ² 8 m
4 m	13 m ² 4 m	64 m ² 9 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

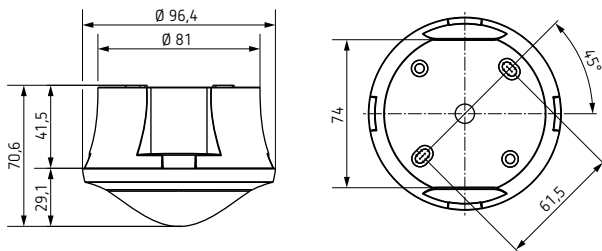


theSenda P
↳ Art.No.: 9070910
Details page 341

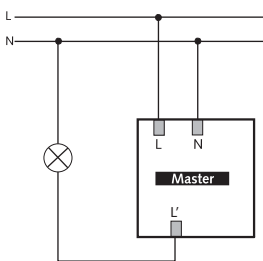


theSenda S
↳ Art.No.: 9070911
Details page 341

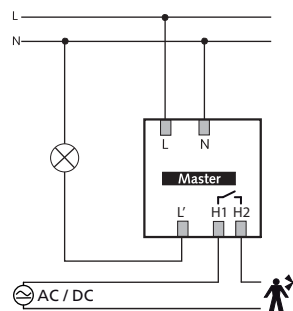
Scale drawings



Connection diagrams



theMova S360-100 AP



theMova S360-101 AP

Presence and motion detectors

Motion detectors



Description

- Motion detector (PIR), with pre-configured cable and Wieland GSTi18 connector, cable length 1,50 meter
- Circular detection area 360°, up to Ø 9 m (64 m²)
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Detection sensitivity configurable
- Test mode for checking function and detection area
- Ready for immediate use due to factory presetting (Brightness switching value 300 lux, Time delay 10 min)
- One of these optional remote controls is required for changing the values and attitudes:
 - Management remote control theSenda B
 - Installation remote control theSenda P
- **Optional user remote control:**
 - theSenda S

Product selection

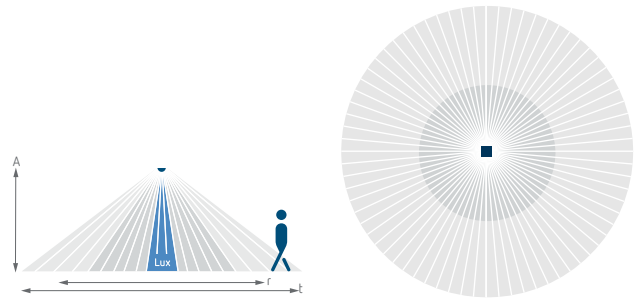
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	White	theMova S360-100 WH GST	1030570

Technical data

	theMova S360-100 WH
Operating voltage	230 V AC
Frequency	50 Hz
Installation height	2–4 m
Power consumption	0,5 W
Setting range brightness	30–3000 lx
Light switch-off delay	10 s–60 min
Type of contact light	Relay 230 V / 10 A μ-contact
Incandescent / halogen lamp load	2300 W
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)
Inrush current	max. 400 A / 200 μs
LED lamp < 2 W	25 W
LED lamp 2–8 W	70 W
LED lamp > 8 W	80 W
Ambient temperature	–15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Round)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	5 m ² 2,5 m	38 m ² 7 m
2,5 m	7 m ² 3 m	38 m ² 7 m
3 m	13 m ² 4 m	50 m ² 8 m
3,5 m	13 m ² 4 m	50 m ² 8 m
4 m	13 m ² 4 m	64 m ² 9 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

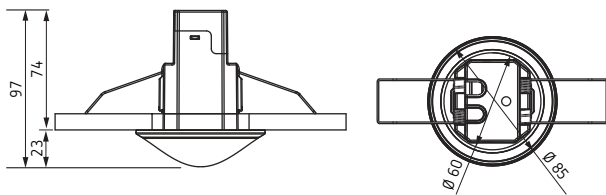


theSenda P
↳ Art.No.: 9070910
Details page 341

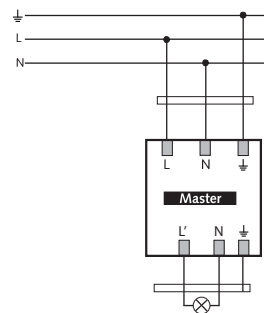


theSenda S
↳ Art.No.: 9070911
Details page 341

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors



Description

- Passive infra-red motion detector for ceiling installation
- Circular detection area 360°, up to Ø 24 m (452 m²)
- Restriction of detection area with cover clips
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Detection sensitivity configurable
- Ready for immediate use due to factory presetting
- Test mode for checking function and detection area
- Ceiling installation in flush-mounted socket
- Ceiling installation possible with back box, IP44 (option)
- User remote control theSenda S (option)
- Management remote control theSenda B (option)
- Installation remote control theSenda P (option)

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110–230 V AC	White	theMova P360-100 UP WH	1030600
			Grey	theMova P360-100 UP GR	1030601

8

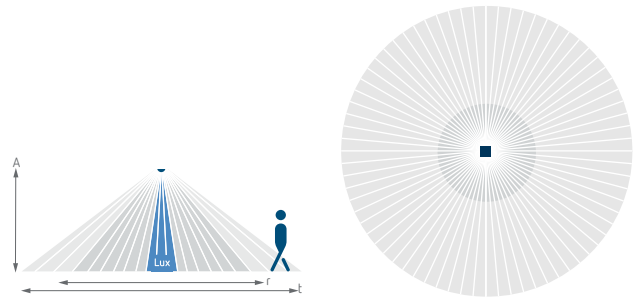
Technical data

	theMova P360-100 UP
Operating voltage	110–230 V AC
Frequency	50–60 Hz
Recommended installation height	2–3,5 m
Power consumption	0,15 W
Setting range brightness	30–3000 lx
Light switch-off delay	10 s–60 min
Type of contact light	Relay 230 V/10 A μ-contact
Incandescent/halogen lamp load	2300 W
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)
Inrush current	max. 800 A/200 μs
LED lamp < 2 W	60 W
LED lamp > 2 W	180 W
Ambient temperature	–15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Round)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	28 m ² 6 m	380 m ² 22 m
2,5 m	38 m ² 7 m	415 m ² 23 m
3 m	50 m ² 8 m	452 m ² 24 m
3,5 m	50 m ² 8 m	452 m ² 24 m
6 m	50 m ² 8 m	452 m ² 24 m
10 m	50 m ² 8 m	452 m ² 24 m

With a mounting height of more than 3.5 m and increasing temperatures the sensitivity of the detector decreases. Extent and distance between the active and passive zones also increases and the detection areas of several detectors should overlap in the marginal zone.



Accessories



Surface frame 110A WH
↳ Art.No.: 9070912
Details page 337



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

QuickSafe
Details page 338

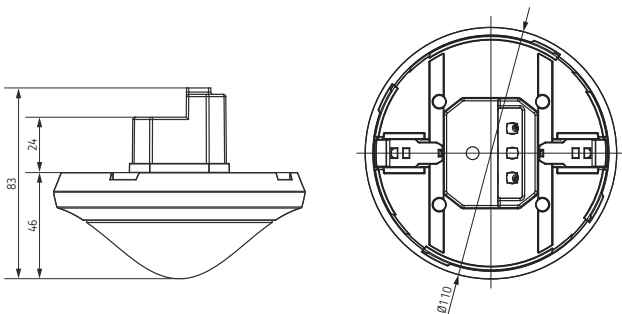
theSenda B
Details page 341

Surface frame 110A GR
Details page 337

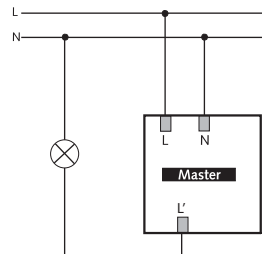
Ceiling installation box 73A
Details page 337

Masking clip
Details page 337

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LED
- Zero-cross switching for relay-saving switching and high lamp loads
- Easy installation via two clamping brackets
- Large clamping area for quick installation
- Single-handed plug-in installation with captive screws
- Instant start-up possible via factory preset

- No unintentional adjustment due to covered up controls
- Adjustable brightness switching value and switch-off delay

LUXA 103-100 DE

- 1 channel
- System consists of power box and sensor with plugged connection cable

LUXA 103-101 DE

- 2 channels
- 2. Relay for HVAC control with adjustable switch-off delay, presence-dependent, potential-free

- HVAC control with programmable switch-off delay

- System consists of power box and sensor with plugged connection cable

LUXA 103-100 AP

- 1 channel

LUXA 103-101 AP

- 2 channels
- 2. Relay for HVAC control with adjustable switch-off delay, presence-dependent, potential-free
- HVAC control with programmable switch-off delay

8

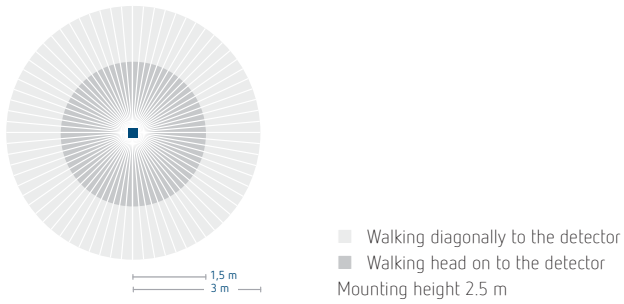
Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
False ceilings	Light	230 V AC	White	LUXA 103-100 DE WH	1030012
	Light Presence	230 V AC	White	LUXA 103-101 DE WH	1030013
Ceiling	Light	230 V AC	White	LUXA 103-100 AP WH	1030022
	Light Presence	230 V AC	White	LUXA 103-101 AP WH	1030023

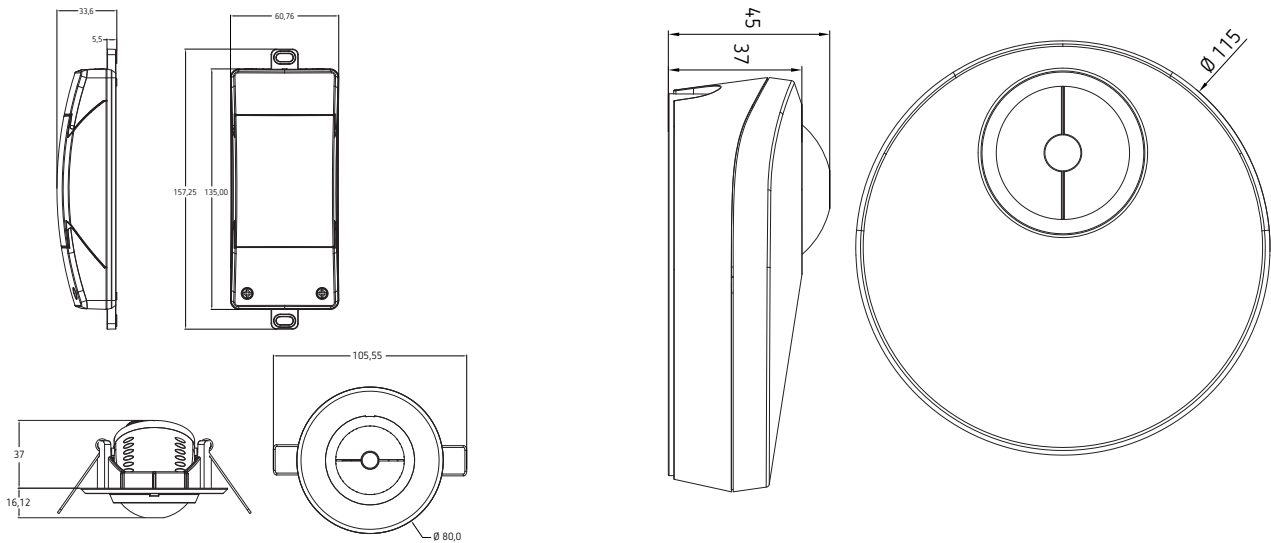
Technical data

	LUXA 103-100 DE	LUXA 103-101 DE	LUXA 103-100 AP	LUXA 103-101 AP
Operating voltage	230 V AC			
Frequency	50–60 Hz			
Installation height	2–3 m			
Stand-by consumption	0,5 W			
Setting range brightness	10–2000 lx			
Light switch-off delay	5 s–30 min			
Switching capacity light	10 A (230 V AC, cos φ = 1)			
Incandescent lamp load	2000 W			
LED lamp < 2 W	35 W			
LED lamp > 2 W	400 W			
Switching capacity presence	–	5 A (250 V AC, cos φ = 1)	–	5 A (250 V AC, cos φ = 1)
Presence switch-off delay	–	10 s–60 min	–	10 s–60 min
Ambient temperature	0 °C ... +45 °C			
Type of protection	IP 44 (Sensor), IP 20 (power module)		IP 40	

Detection range (Round)



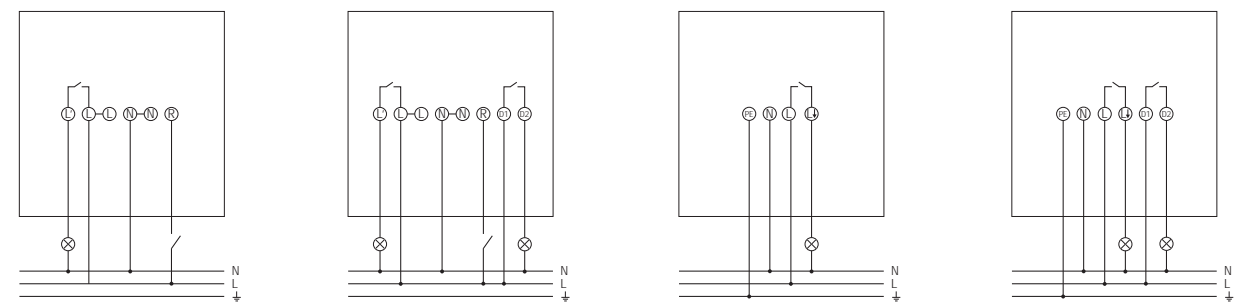
Dimensions



LUXA 103 DE

LUXA 103 AP

Connection diagrams



LUXA 103-100 DE

LUXA 103-101 DE

LUXA 103-100 AP

LUXA 103-101 AP

Presence and motion detectors

Motion detectors



Description

- Motion detector (PIR)
- 1 channel
- Automatic lighting control based on presence and brightness
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LED
- Zero-cross switching for relay-saving switching and high lamp loads
- Large clamping area for quick installation
- Single-handed plug-in installation with captive screws
- Instant start-up possible via factory preset
- No unintentional adjustment due to covered up controls
- Adjustable brightness switching value and switch-off delay

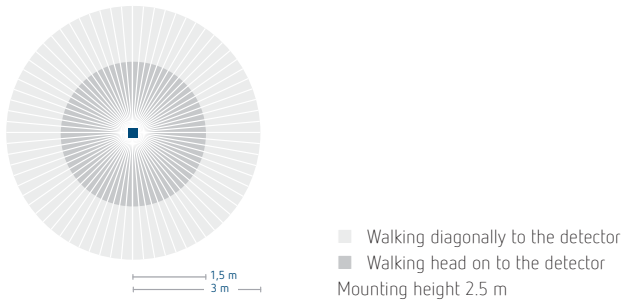
Product selection

Installation type	Channel	Colour	Type	Article number
Ceiling installation	Light	White	LUXA 103-100 C DE WH	1030016

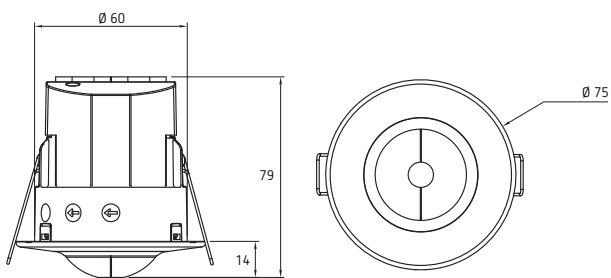
Technical data

	LUXA 103-100 C DE
Operating voltage	230 V AC
Frequency	50–60 Hz
Installation height	2–3 m
Stand-by consumption	0,5 W
Setting range brightness	10–2000 lx
Light switch-off delay	5 s–30 min
Switching capacity light	10 A (230 V AC, $\cos \varphi = 1$)
Incandescent lamp load	2000 W
LED lamp < 2 W	35 W
LED lamp > 2 W	400 W
Switching capacity presence	–
Presence switch-off delay	–
Ambient temperature	0 °C ... +45 °C
Type of protection	IP 44

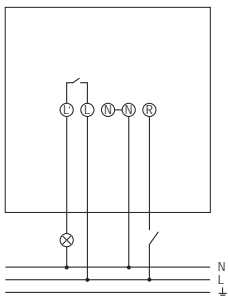
Detection range (Round)



Dimensions



Connection diagrams



LUXA 103-100 C DE

Presence and motion detectors

Motion detectors



Description

- LUXA 103-100 U WH
- Motion detector (PIR)
 - Automatic lighting control based on presence and brightness
 - 1 channel
 - Flexible installation options, ceiling installation using clamping brackets as well as flush-mounted or surface mounting using the optional surface frame
 - Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LED
 - Zero-cross switching
 - Detection area can be limited using three enclosed segments
- Instant start-up possible via factory preset
 - No unintentional adjustment due to covered up controls
 - Adjustable brightness switching value and switch-off delay
 - Sensitivity can be reduced to limit detection area
 - Pulse function
 - Test function
- LUXA 103-100 UA WH
- With acoustic function
 - Activation by the PIR sensor and deactivation by the microphone (microphone can also be deactivated)

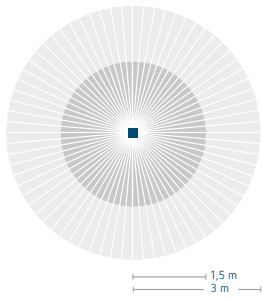
Product selection

Installation type	Channel	With acoustic function	Colour	Type	Article number
Ceiling installation	Light	-	White	LUXA 103-100 U WH	1030040
		✓	White	LUXA 103-100 UA WH	1030045

Technical data

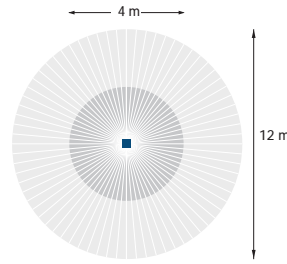
	LUXA 103-100 UA WH
Operating voltage	230 V AC
Frequency	50–60 Hz
Stand-by consumption	0,5 W
Installation height	2–4 m
Detection angle	360°
Setting range brightness	10–2000 lx
Light switch-off delay	5 s–30 min
Incandescent lamp load	2000 W
LED lamp < 2 W	35 W
LED lamp > 2 W	400 W
Ambient temperature	-20 °C ... +45 °C
Protection class	II
Type of protection	IP 40 (when fitted)

Detection range (Round)



LUXA 103-100 U WH

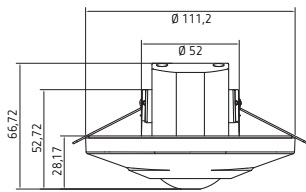
■ Walking diagonally to the detector
■ Walking head on to the detector
Mounting height 2.5 m



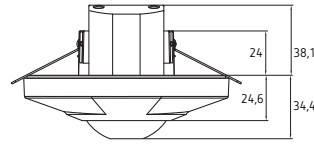
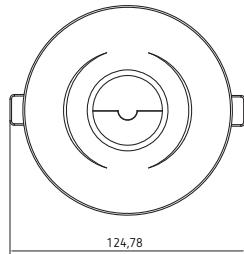
LUXA 103-100 UA WH

■ Walking diagonally to the detector
■ Walking head on to the detector
Mounting height 2.5 m

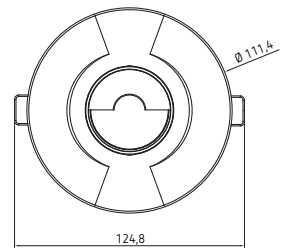
Dimensions



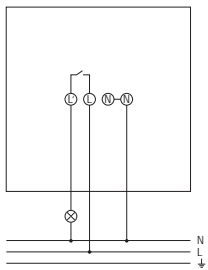
LUXA 103 U



LUXA 103 UA



Connection diagrams



Accessories



Surface frame LUXA 103-100 U

↳ Art.No.: 9070986

Details page 340

Presence and motion detectors

Motion detectors



Description

- Motion detector (PIR)
 - Automatic lighting control based on presence and brightness
 - Wall installation
 - Compatible with branded switches, replaces conventional light switches
 - Area limit via lens attachment
 - Manual AUTO/ON/OFF switching by simple adjustment of cover flap
 - Teach-in of current brightness value
 - Instant start-up possible via factory preset
 - No unintentional adjustment due to covered up controls
 - Adjustable brightness switching value and switch-off delay
 - Sensitivity can be reduced to limit detection area
 - Pulse function
- LUXA 103-200**
- Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
 - Expansion of detection area through integrated master/slave or master/master function when using up to 10 devices
 - With acoustic advance shut-off warning 15 seconds before light switches off
- LUXA 103-200 T**
- 2 wire connection, ideal for retrofitting
 - Light switch output (triac, 230 V AC)
 - Mixed light measurement suitable for incandescent and halogen lamps (no electronic ballast)
 - Advance shut-off warning through dimming 15 seconds before light switches off

Product selection

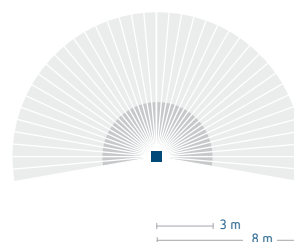
Installation type	Channel	Colour	Detection angle	Type	Article number
Flush-mounted wall installation	Light	White	200°, circular	LUXA 103-200	1030030
				LUXA 103-200 T	1030031

Technical data

	LUXA 103-200	LUXA 103-200 T
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	1 W	0,7 W
Setting range brightness	10 – 1000 lx Infinitely adjustable	
Switching capacity light	10 A (at 230 V AC, cos φ = 1), 3 AX (at 230 V AC, cos φ = 0.3)	2 A (at 230 V AC, cos φ = 1)
Detection angle	200°, circular	
Installation height	1,2–2 m	
Light switch-off delay	20 s–30 min	
Incandescent lamp load	1000 W	400 W
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 µF	–
Ambient temperature	0 °C ... +45 °C	
Protection class	II	
Type of protection	IP 40	

Detection range (Semicircular)

Mounting height (A)	Head on to (r)	Diagonally (t)
1,2–2 m	3,5 m	8 m



Accessories

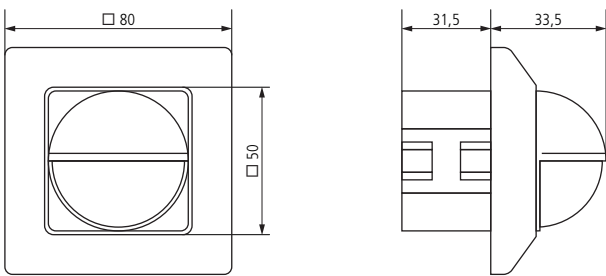


Surface frame LUXA 103-200
↳ Art.No.: 9070504
Details page 340

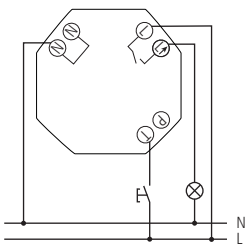


RC filter
↳ Art.No.: 9070523
Details page 338

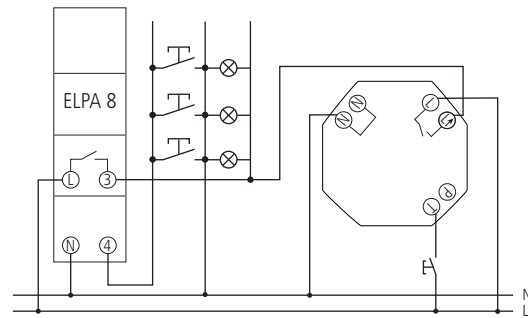
Scale drawings



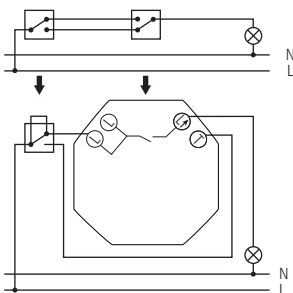
Connection diagrams



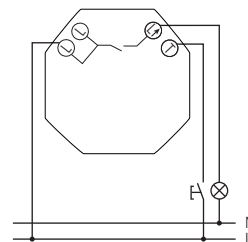
LUXA 103-200



LUXA 103-200



LUXA 103-200 T














LUXA 103-200 T



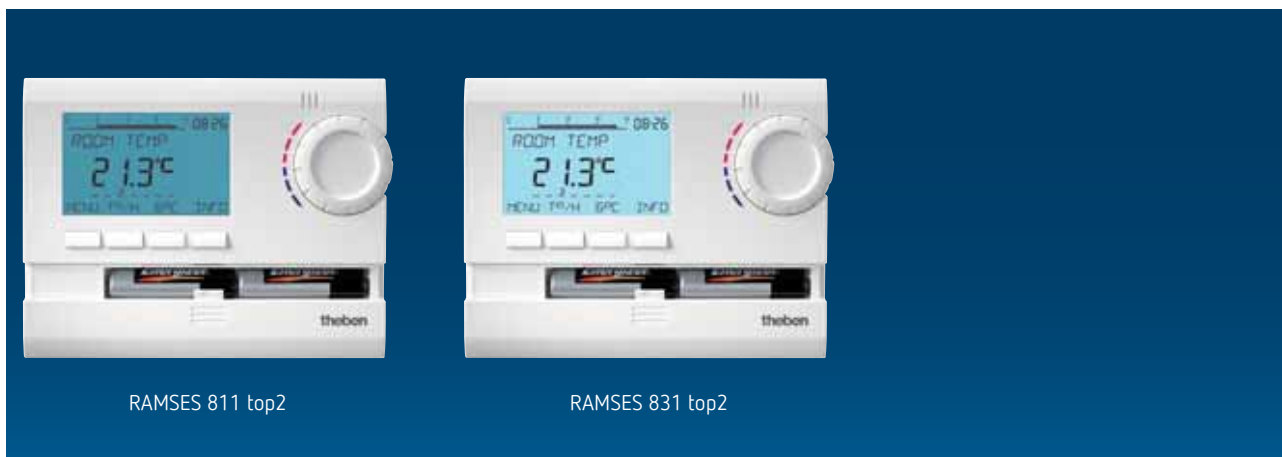
Space and time

There are daily processes that always follow a fixed schedule. It's good when everything is just so, Theben takes care of that, for example with its programmable clock thermostats, that create exactly the conditions expected – and that one is entitled to expect. This type of precision characterises Theben generally. It is apparent not just in our products. Above all, it characterises our thoughts and actions. As there is scarcely anything more important for us than precision.

Program	Type of connection	Operating voltage	Switching capacity at 250 V AC	Type of contact	Type	Page	
Digital battery version							
	Weekly program	2/3-way conductors	2 AA batteries	6 (1) A	Changeover contact	RAMSES 811 top2	198
						RAMSES 831 top2	198
		3-/4-conductors	2 AA batteries	16 (2) A	NO contact	RAMSES 813 top2 HF Set A	204
				6 (1) A	Changeover contact	RAMSES 813 top2 HF Set 1	204
						RAMSES 833 top2 HF Set 1	206
						RAMSES 833 top2 HF Set 2	206
Digital 230 V							
	Weekly program	3-/4-conductors	230 V AC	8 (1) A	Changeover contact	RAMSES 812 BLE	200
		2-way conductor (BUS) room controller	230 V AC	10 (1) A	Changeover contact	RAMSES 816 BLE	201
		3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 812 top2	202
						RAMSES 832 top2	202
		DuoFix spring terminals	230 V AC	10 (2) A	Changeover contact	RAMSES 366/1 top2	208
OpenTherm							
	Weekly program	2-way conductor (BUS) room controller	OT-Bus	-	-	RAMSES 850 BLE OT	209
			230 V AC	2 x 2 (1) A Relay, 1 x 1 (1) A Relay	NO contact	RAMSES 816 top2 OT	210
				5 x 5 (1) A Relay, 2 x 1 (1) A Relay	NO contact	RAMSES 856 top2 OT	212
Analogue battery version							
	Daily program	2/3-way conductors	2 AA batteries	6 (1) A	Changeover contact	RAMSES 784 S	214
	Daily/weekly program	2/3-way conductors	2 AA batteries	6 (1) A	Changeover contact	RAMSES 784	216
Analogue 230 V							
	Daily program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 722 S	214
	Daily/weekly program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 722	216
						RAMSES 782	216
Daily program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 721	216	
Daily/weekly program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 725	216	

Climate control

Clock thermostats, Digital battery version



RAMSES 811 top2

RAMSES 831 top2

Description

Common functions

- Digital clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
- Battery version
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- Temperature is set quickly via rotary switch
- INFO key for viewing important settings

- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party / ECO program
- Fully automatic summer / winter-time correction
- Holiday program with reduction phase or date-controlled heating phase for holiday homes
- Different control types can be individually set
- Optimum start option thanks to operating point and switching differential setting option

- 24 programmable time phases per program also enable reduction phases during the day
- Plug-in base for wall or flush-mounted socket installation

RAMSES 831 top2

- Backlit display through keystroke
- External input for connection of presence detectors, temperature sensors, floor sensors, window contacts or telephone remote switches
- Optimisation function for automatic correction of heating start up

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Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
2/3-way conductors	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 811 top2	8119132
					RAMSES 831 top2	8319132

Technical data

	RAMSES 811 top2	RAMSES 831 top2
Operating voltage	2 AA batteries	
Type of contact	Changeover contact	
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free	
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	
Power reserve	Max. 10 mins without losing time	
Battery life	approx. 1 year, depending on switching frequency	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344



Actuator ALPHA 5 24 V
↳ Art.No.: 9070442
Details page 343



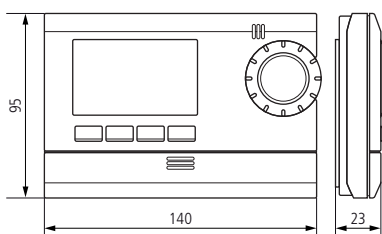
Temperature sensor
for RAMSES 831 top2
↳ Art.No.: 9070321
Details page 343



Temperature sensor RAMSES IP 65
for RAMSES 832 top2
↳ Art.No.: 9070459
Details page 343

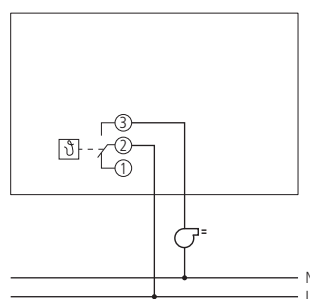
9

Scale drawings

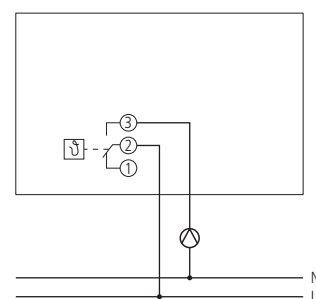


RAMSES 811 top2, RAMSES 831 top2

Connection diagrams



RAMSES 811 top2



RAMSES 811 top2

Climate control

Clock thermostats, Digital 230 V



RAMSES 812 BLE

Description

- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Mains version
- Suitable for energy-saving room temperature control in houses, apartments, etc.
- Operation via app
- Direct Bluetooth Low Energy (BLE) connection between the app and RAMSES BLE, no communication via the Internet
- Settings configured conveniently via the app with intuitive operation from a smartphone or tablet
- Increased user convenience
- External input for the flexible connection of the external room temperature sensor, floor sensor, motion detector or telephone contact
- Intelligent control algorithm (pulse-duration controller, hysteresis controller)
- Suitable for on/off heating systems, zone-based or single-room control, electric heating units

Product selection

Connection type	Program	Setting range temperature	Type	Article number
3-/4-wire	Weekly program	+2 °C to +30 °C	RAMSES 812 BLE	8120150

Technical data

RAMSES 812 BLE			
Operating voltage	230 V AC, 50 Hz	Program	Weekly program
Controller type	Hysteresis or pulse-duration controller	Number of memory locations	42
Switching capacity	8 (1) A/250 V AC	Power reserve	4 hours
Setting range temperature	+2 °C to +30 °C	Type of protection	IP 20
Connection type	3-/4-wire (230 V + switching output)	Protection class	II in accordance with EN 60730-1

9

Accessories



Temperature sensor RAMSES IP 65
↳ Art.No.: 9070459
Details page 343



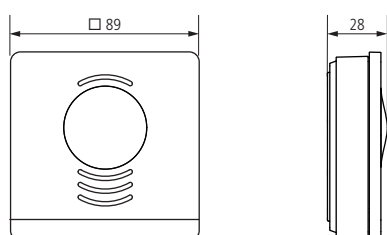
Temperature sensor
↳ Art.No.: 9070321
Details page 343

Simple operation via app



- Intuitive programming without the need for prior experience and device monitoring on a high-resolution smartphone display
- Maximum protection against tampering and optimum data protection thanks to the local Bluetooth Low Energy connection. No Internet connection with cloud data storage, remote access and geofencing

Scale drawings





Description

- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Suitable for energy-saving room temperature control in houses, apartments, etc.
- Operation via app
- Direct Bluetooth Low Energy (BLE) connection between the app and RAMSES BLE, no communication via the Internet
- Settings configured conveniently via the app with intuitive operation from a smartphone or tablet
- Increased user convenience
- Power supply via OpenTherm bus (clock thermostat)
- Mains version (control box)
- Relay switch output at the control box (floating, 10 (1) A)
- External input for the flexible connection of the external room temperature sensor, floor sensor, motion detector or telephone contact
- Replaces 2-wire controller in the room when the lower housing is fitted next to the heating
- Suitable for switching higher currents (relay in lower housing) for electric heating units
- Suitable for on/off heating systems, zone-based or single-room control, for higher switching capacities with control box, and for 2-wire connection (for replacing 2-wire battery devices)

Product selection

Connection type	Program	Setting range temperature	Type	Article number
2-wire (BUS) room controller	Weekly program	+2 °C to +30 °C	RAMSES 816 BLE	8160150

Technical data

RAMSES 816 BLE			
Operating voltage	OT bus 230 V AC, 50 Hz	Program	Weekly program
Controller type	Hysteresis or pulse-duration controller	Number of memory locations	42
Switching capacity	10 (1) A/250 V AC	Power reserve	4 hours
Setting range temperature	+2 °C to +30 °C	Type of protection	IP 20
Connection type	2-wire (BUS) room controller	Protection class	II in accordance with EN 60730-1

Accessories



Temperature sensor RAMSES IP 65
↳ Art.No.: 9070459
Details page 343

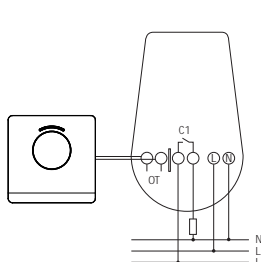


Temperature sensor
↳ Art.No.: 9070321
Details page 343

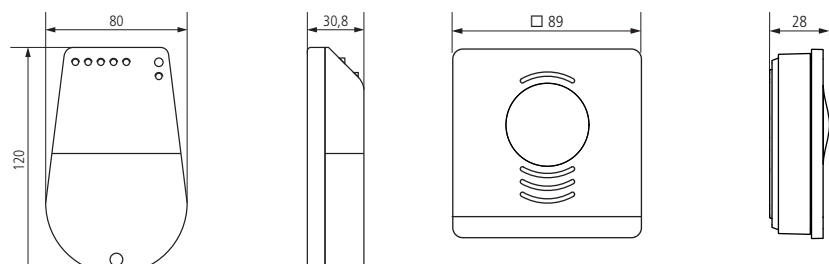


- Intuitive programming without the need for prior experience and device monitoring on a high-resolution smartphone display
- Maximum protection against tampering and optimum data protection thanks to the local Bluetooth Low Energy connection. No Internet connection with cloud data storage, remote access and geofencing

Connection diagrams

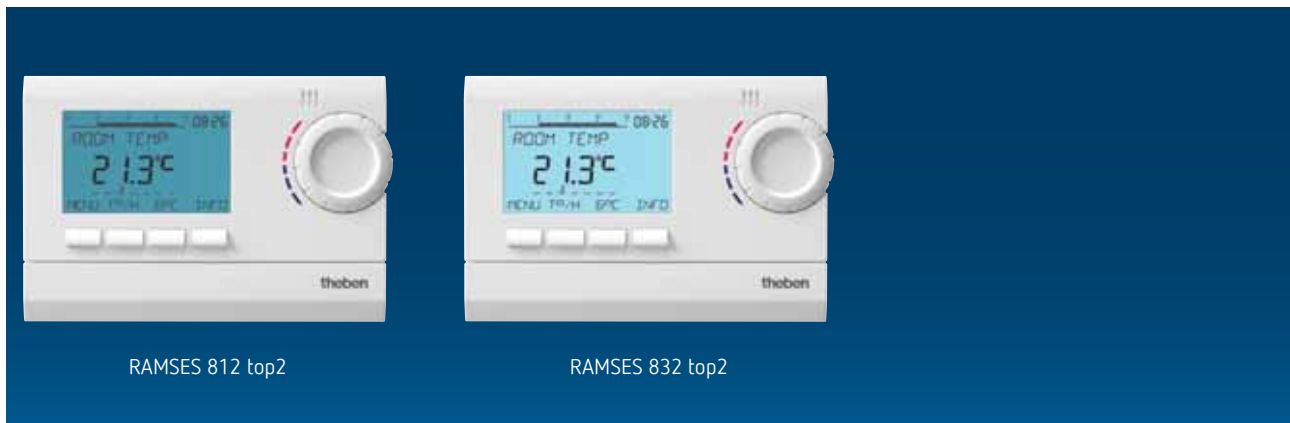


Scale drawings



Climate control

Clock thermostats, Digital 230 V



RAMSES 812 top2

RAMSES 832 top2

Description

Common functions

- Digital clock thermostat with low profile design for time-dependent monitoring and control of room temperature
- Mains version
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- Temperature is set quickly via rotary switch
- INFO key for viewing important settings
- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party / ECO program
- Fully automatic summer/winter-time correction
- Different control types can be individually set
- Optimum start option thanks to operating point and switching differential setting option
- 24 programmable time phases per program also enable reduction phases during the day
- Plug-in base for wall or flush-mounted socket installation

RAMSES 832 top2

- Backlit display through keystroke
- External input for connection of presence detectors, temperature sensors, floor sensors, window contacts or telephone remote switches
- Optimisation function for automatic correction of heating start up

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
3-/4-conductors	Weekly program	6 (1) A	+6 °C ... +30 °C	230 V AC	RAMSES 812 top2	8120132
					RAMSES 832 top2	8320132

Technical data

	RAMSES 812 top2	RAMSES 832 top2
Operating voltage	230 V AC	
Frequency	50 Hz	
Type of contact	Changeover contact	
Switching capacity	6 A (at 250 V AC, cos φ = 1), 1 A (at 250 V AC, cos φ = 0.6)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free, not for SELV	
Time accuracy at 25 °C	≤ ± 1 s/day (quartz)	
Power reserve	5 hours	

	RAMSES 812 top2	RAMSES 832 top2
Stand-by consumption	0,4 W	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344



Actuator ALPHA 5 24 V
↳ Art.No.: 9070442
Details page 344

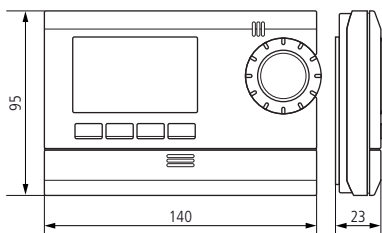


Temperature sensor
for RAMSES 832 top2
↳ Art.No.: 9070321
Details page 343



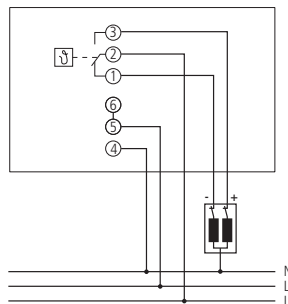
Temperature sensor RAMSES
IP 65
for RAMSES 832 top2
↳ Art.No.: 9070459
Details page 343

Scale drawings

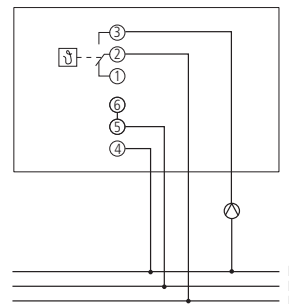


RAMSES 812 top2, RAMSES 832 top2

Connection diagrams

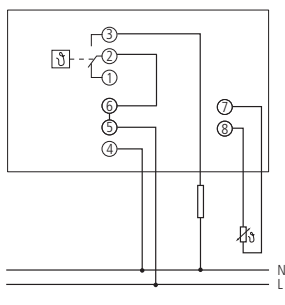


RAMSES 812 top2

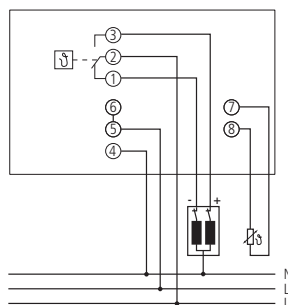


RAMSES 812 top2

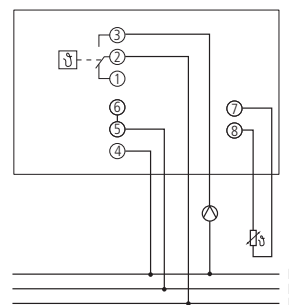
Connection diagrams



RAMSES 832 top2



RAMSES 832 top2



RAMSES 832 top2

Climate control

Clock thermostats, Digital battery version



RAMSES 813 top2 HF Set A

RAMSES 813 top2 HF Set 1

Description

Common functions

- Radio-controlled system for room temperature control
- The system consists of one digital clock thermostat and one receiver
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- Required temperature set via the rotary dial
- INFO key for viewing important settings
- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party / ECO program
- Automatic summer/winter time adjustment
- Different control types can be individually set

- Optimum start option thanks to operating point and switching differential setting option
- 24 programmable time phases per program also enable reduction phases during the day
- 2 comfort and 2 reduced temperatures can be allocated to each phase
- Including base for free choice of position
- An optionally available plug-in base is required for wall installation
- Holiday program with reduced temperature or date-controlled heating phase
- Optional pump protection function
- Optional feature to warn when boiler maintenance required

RAMSES 813 top2 HF Set A

- Consisting of a RAMSES 813 top2 HF and a REC 11 receiver with an NO contact 16(2) A/250 V AC for wall mounting

RAMSES 813 top2 HF Set 1

- Consisting of a RAMSES 813 top2 HF and a REC 1 receiver with a two-way switch 6(2) A/250 V AC

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
Radio controlled	Weekly program	16 (2) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 813 top2 HF Set A	8139503
	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 813 top2 HF Set 1	8139501

Technical data

	RAMSES 813 top2 HF Set A	RAMSES 813 top2 HF Set 1
Operating voltage	2 AA batteries	
Type of contact	NO contact	Changeover contact
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 2 A (at 250 V AC, $\cos \varphi = 0.6$)	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free, not for SELV	Potential-free
Time accuracy at 25 °C	± 1 s/day (quartz)	
Power reserve	Max. 10 mins without losing time	
Stand-by consumption	1,9 W	1,7 W
Battery life	approx. 1 year, depending on switching frequency	
Width	–	5 modules
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories

Socket RAMSES

Details page 343

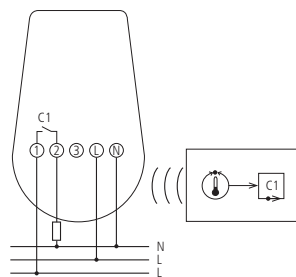
Actuator ALPHA 5 230 V

Details page 344

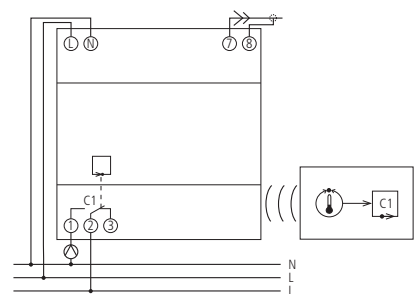
Actuator ALPHA 5 24 V

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Connection diagrams

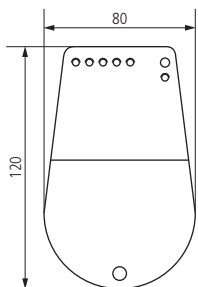


RAMSES 813 top2 HF Set A

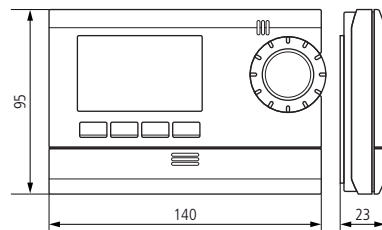


RAMSES 813 top2 HF Set 1

Scale drawings



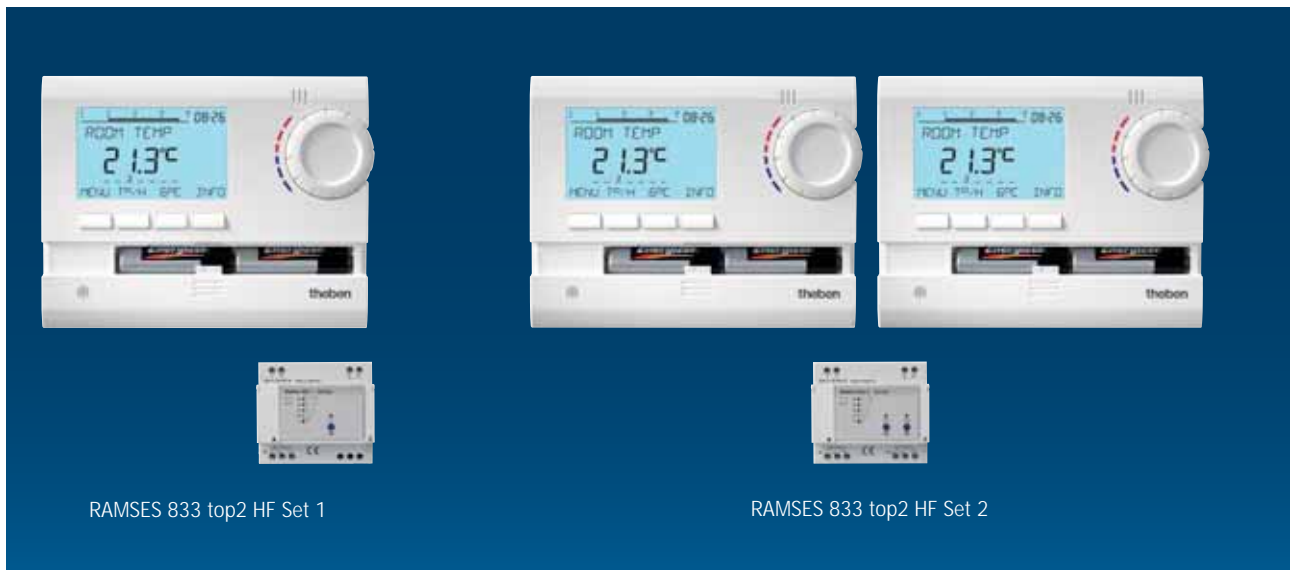
RAMSES 813 top2 HF Set A



RAMSES 813 top2 HF

Climate control

Clock thermostats, Digital battery version



RAMSES 833 top2 HF Set 1

RAMSES 833 top2 HF Set 2

Description

Common functions

- Radio-controlled system for room temperature control
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- The system consists of one or two digital clock thermostat and one receiver
- Required temperature set via the rotary dial
- INFO key for viewing important settings
- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party/ECO program
- Automatic summer/winter time adjustment
- Different control types can be individually set

- Optimum start option thanks to operating point and switching differential setting option
- 24 programmable time phases per program also enable reduction phases during the day
- Backlit display through keystroke
- External input for connection of presence detectors, temperature sensors, floor sensors, window contacts or telephone remote switches (can only be used in connection with optional plug-in base for wall mounting)
- Optimisation function for automatic correction of heating start up
- Holiday program with reduction phase or date-controlled heating phase for holiday homes

- Optional feature to warn when boiler maintenance required
- Optional pump protection function
- 3 comfort and 2 reduced temperatures can be allocated to each phase
- Including base for free choice of position
- An optionally available plug-in base is required for wall installation

RAMSES 833 top2 HF Set 1

- Consisting of a RAMSES 833 top2 HF and a REC 1 receiver with a two-way switch 6(2) A/250 VDC

RAMSES 833 top2 HF Set 2

- Consisting of two RAMSES 833 top2 HF and a 2 channel REC 2 receiver with a two-way switch 6(2) A/250 VDC per channel

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
Radio controlled	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 833 top2 HF Set 1	8339501
	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 833 top2 HF Set 2	8339502

Technical data

	RAMSES 833 top2 HF Set 1	RAMSES 833 top2 HF Set 2
Operating voltage	2 AA batteries	
Type of contact	Changeover contact	
Switching capacity	6 A (at 250 V AC, cos φ = 1), 1 A (at 250 V AC, cos φ = 0.6)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free, not for SELV	
Time accuracy at 25 °C	≤ ± 1 s/day (quartz)	
Power reserve	Max. 10 mins without losing time	
Stand-by consumption	1,7 W	2,2 W
Battery life	approx. 1 year, depending on switching frequency	
Width	5 modules	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344



Temperature sensor
↳ Art.No.: 9070321
Details page 343



Temperature sensor RAMSES IP 65
for RAMSES 833 top2 HF Set 1
↳ Art.No.: 9070459
Details page 343

Socket RAMSES

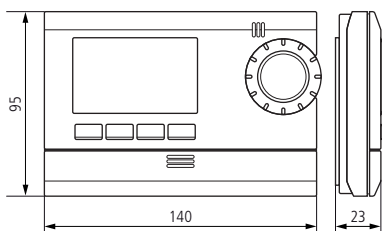
Details page 343

Actuator ALPHA 5 24 V

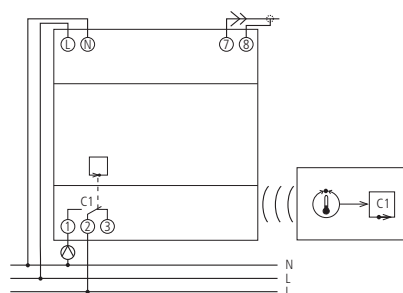
Details page 344

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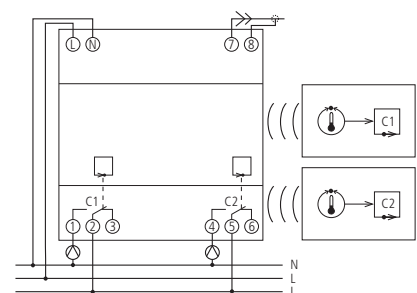
Scale drawings



Connection diagrams



RAMSES 833 top2 HF Set 1



RAMSES 833 top2 HF Set 2

Climate control

Clock thermostats, Digital 230 V



RAMSES 366/1 top2

Description

- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Zone control, 1 zone
- 1 external temperature sensor required
- Daily/weekly program can be set to the minute
- Date-controlled holiday program
- Programming displayed graphically by a bar arrangement in the LCD
- Fully automatic summer/winter-time correction
- Manual switching pre-selection and operation mode selector for: Automatic mode, comfort mode, reduction mode, frost protection mode
- PIN coding
- DuoFix spring terminals
- Text-oriented user guidance in display
- Interface for OBELISK top2 memory card (Copying of programs)

Product selection

Number of channels	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
1	Weekly program	10 (2) A	+6 °C ... +30 °C	230 V AC	RAMSES 366/1 top2	3660100

Technical data

RAMSES 366/1 top2			
Operating voltage	230 V AC	Number of memory locations	42
Frequency	50–60 Hz	Time accuracy at 25 °C	≤ ± 0.25 s/day (quartz)
Type of contact	Changeover contact	Power reserve	10 years
Switching capacity	10 (2) A	Stand-by consumption	1,3 W
Setting range temperature	+6 °C ... +30 °C	Width	2 modules
Time basis	Quartz	Type of protection	IP 20
Program	Weekly program	Protection class	II

9

Accessories



Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344

Actuator ALPHA 5 24 V
Details page 344

Wall mounting kit 35 mm
Details page 334

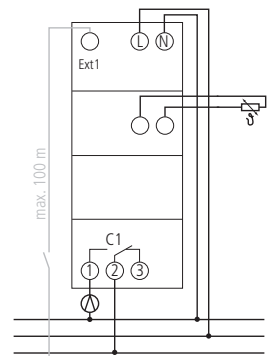
Memory card OBELISK top2
Details page 335

Front panel kit
Details page 334

External temperature sensor 1
Details page 343

External temperature sensor 2
Details page 343

Connection diagrams





Description

- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Power supply via OpenTherm bus
- Suitable for energy-saving room temperature control in houses, apartments, etc.
- Operation via app
- Direct Bluetooth Low Energy (BLE) connection between the app and RAMSES BLE, no communication via the Internet
- Settings configured conveniently via the app with intuitive operation from a smartphone or tablet
- Increased user convenience
- Communication with the heating unit via OpenTherm
- External input for the flexible connection of the external room temperature sensor, floor sensor, motion detector or telephone contact
- PI room controller, controlled by atmospheric conditions, with or without room influence
- Preset with three modifiable weekly programs for heating and one for tap water
- Suitable for modulating gas condensing boiler systems and modulating heating systems with OpenTherm interface

Product selection

Connection type	Program	Setting range temperature	Type	Article number
2-wire (BUS) room controller	Weekly program	+2 °C to +30 °C	RAMSES 850 BLE OT	8509150

Technical data

RAMSES 850 BLE OT			
Operating voltage	OT bus	Program	Weekly program
Controller type	Modulating controller, works with OpenTherm protocol (OpenTherm V4.0 with SmartPower)	Number of memory locations	42
Setting range temperature	+2 °C to +30 °C	Power reserve	4 hours
Connection type	2-way conductor (BUS) room controller	Type of protection	IP 20
		Protection class	II

Accessories



Temperature sensor RAMSES IP 65
↳ Art.No.: 9070459
Details page 343



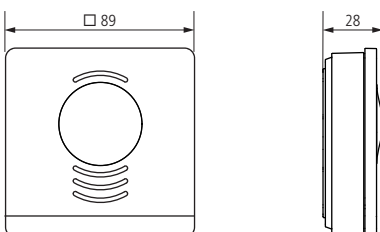
Temperature sensor
↳ Art.No.: 9070321
Details page 343

Simple operation via app

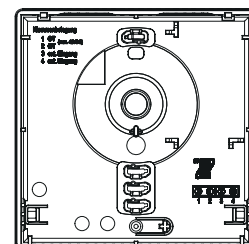


- Intuitive programming without the need for prior experience and device monitoring on a high-resolution smartphone display
- Maximum protection against tampering and optimum data protection thanks to the local Bluetooth Low Energy connection. No Internet connection with cloud data storage, remote access and geofencing

Scale drawings

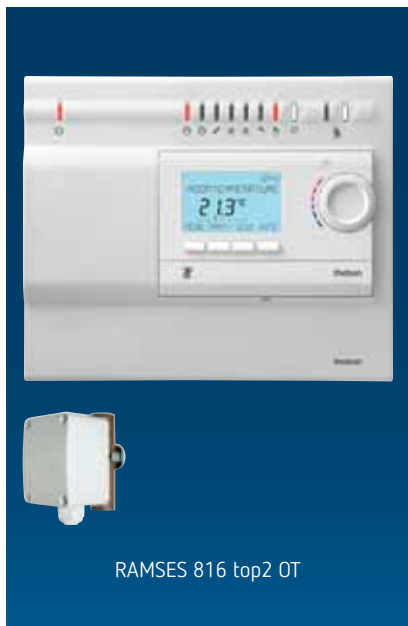


Connection diagrams



Climate control

Clock thermostats, OpenTherm



Description

- Digital mixer control
- 3 different weekly programs
- 3 comfort and 2 reduced temperatures can be allocated to each zone
- INFO button for the most important data
- Party/ECO program
- Chimney sweeping function with push button OT box
- Minimum boiler temperature can be set
- 2-stage burner control option
- Holiday program with reduced temperature or date-controlled heating phase can be programmed e. g. for holiday homes
- USB interface for modem
- Automatic summer/winter time adjustment
- Control of feed temperature via motorcontrolled mixer
- 3-point controller with feed sensor
- Pump protection function
- Inputs: feed sensor heating circuit (contained in set), external sensor
- Elapsed-time counter for recording relay switching times e.g. burner operating time
- Adjustable reminder function for heater maintenance

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
2-way conductor (BUS) room controller	Weekly program	2 x 2 (1) A, 1 x 1 (1) A	+6 °C ... +30 °C	230 V AC	RAMSES 816 top2 OT	8169132

Technical data

RAMSES 816 top2 OT			
Operating voltage	230 V AC	Number of memory locations	42
Frequency	50 Hz	Switching hysteresis	2–20 K
Type of contact	NO contact	Mixer runtime	2–10 min
Switching capacity	2 x 2 (1) A Relay, 1 x 1 (1) A Relay	Power reserve	4 hours
Setting range temperature	+6 °C ... +30 °C	Stand-by consumption	~1,1 W
Flow temperature limit	+40 °C ... +90 °C	Type of protection	IP 20
Type of connection	2-way conductor (BUS) room controller	Protection class	II according to EN 60 730-1
Program	Weekly program		

Accessories



External temperature sensor
 ↳ Art.No.: 9070463
 Details page 343

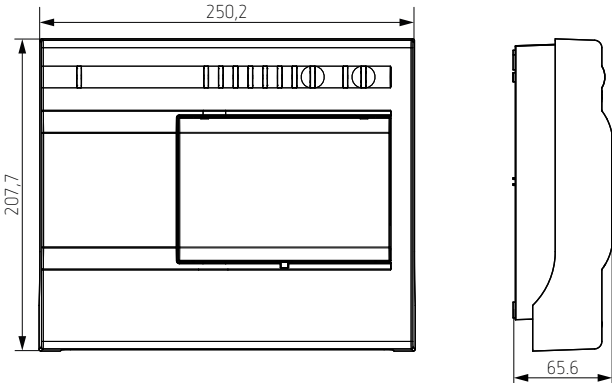


Temperature sensor RAMSES IP 65
 ↳ Art.No.: 9070459
 Details page 343

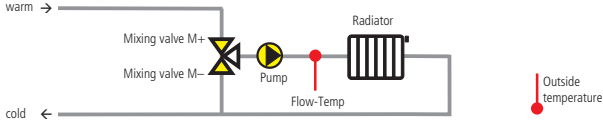
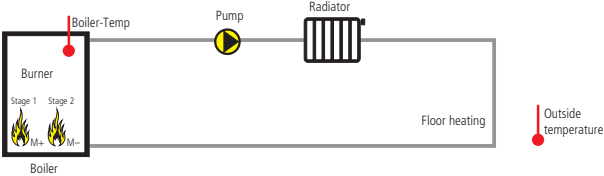


Plunge sensor RAMSES
 ↳ Art.No.: 9070379
 Details page 344

Scale drawings

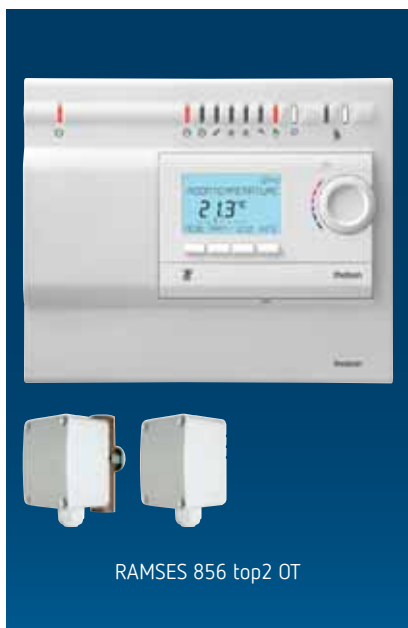


Connection diagrams



Climate control

Clock thermostats, OpenTherm



Description

- Digital heating control for time-dependent monitoring and control of room temperature
- Open Therm heating controller for 2 or 3 point control, weather-dependent, service water and circulation control
- Automatic sensor recognition for weather- or room-dependent control; can be switched manually at any time
- 3 different weekly programs
- 3 comfort and 2 reduced temperatures can be allocated to each phase
- INFO button for the most important data
- Additional switching program for domestic hot water utilisation times
- Adjustable service water storage temperature, programmable legionella protection
- Party/ECO program
- Chimney sweeping function with push button OT box
- Minimum boiler temperature can be set
- 2 heating curves can be set for 2 heating circuits
- 2-stage burner control option
- Holiday program with reduced temperature or date-controlled heating phase can be programmed e. g. for holiday homes
- USB interface for modem
- Automatic summer/winter time adjustment
- Boiler/feed temperature (control circuit 1) controlled by switching the burner
- Control of feed temperature (control circuit 2) via pump control or motor-controlled mixer
- 3-point controller with feed sensor
- Time- and temperature-dependent control of hot water circulation pump.
- Pump protection function
- Inputs: External sensor (contained in set), feed sensor heating circuit (contained in set), contact or immersion sensor for domestic hot water, contact sensor for circulation
- Elapsed-time counter for recording relay switching times e.g. burner operating time
- Adjustable reminder function for heater maintenance

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
2-way conductor (BUS) room controller	Weekly program	5 x 5 (1), 2 x 1 (1) A	+6 °C ... +30 °C	230 V AC	RAMSES 856 top2 OT	8569132

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Technical data

RAMSES 856 top2 OT			
Operating voltage	230 V AC	Number of memory locations	42, max. 24 per program
Frequency	50 Hz	Switching hysteresis	2–20 K
Type of contact	NO contact	Mixer runtime	2–10 min
Switching capacity	5 x 5 (1) A Relay, 2 x 1 (1) A Relay	Power reserve	4 hours
Setting range temperature	+6 °C ... +30 °C	Stand-by consumption	~1,1 W
Flow temperature limit	+40 °C ... +90 °C	Type of protection	IP 20
Type of connection	2-way conductor (BUS) room controller	Protection class	II according to EN 60 730-1
Program	Weekly program		

Accessories



Temperature sensor RAMSES
IP 65
↳ Art.No.: 9070459
Details page 343



Flow temperature sensor
RAMSES
↳ Art.No.: 9070371
Details page 344

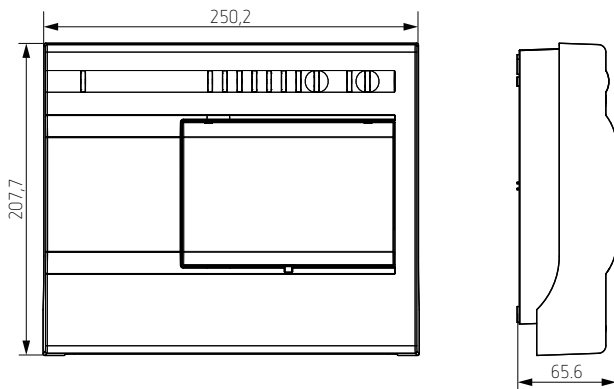


OT-Box Standard
↳ Art.No.: 9070712
Details page 343



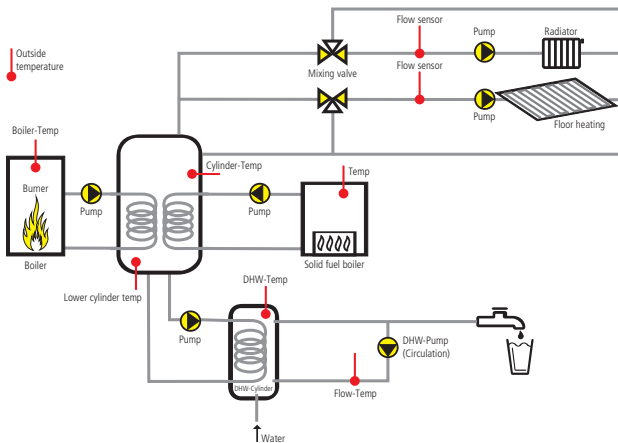
Plunge sensor RAMSES
↳ Art.No.: 9070379
Details page 344

Scale drawings

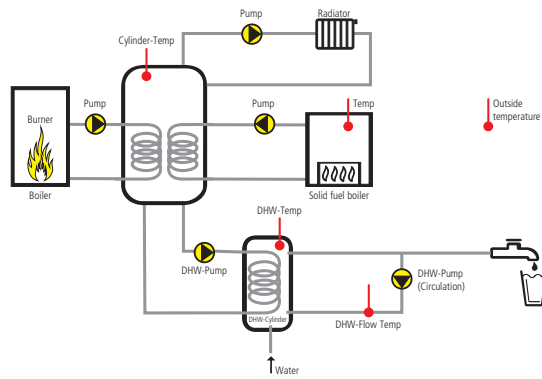


RAMSES 856 top2 OT

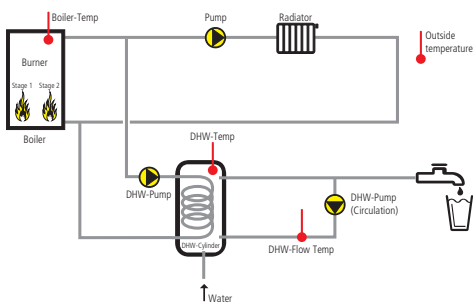
Connection diagrams



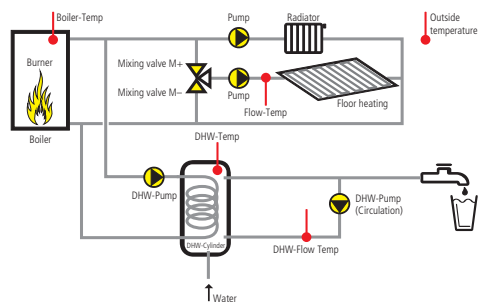
RAMSES 856 top2 OT (in combination with OT-Box 9070712)



RAMSES 856 top2 OT



RAMSES 856 top2 OT



RAMSES 856 top2 OT

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V



RAMSES 784 S

Description

Common functions

- Analogue clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
- Segment program disc with daily program
- Normal and reduced temperature can be set separately
- Operating point and electronic recirculation are set from the front
- Party switch and program display

RAMSES 784 S

- Battery version
- Electronic temperature control
- Quartz mechanism
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C
- Battery monitoring with battery replacement indicator via flashing LED

- Sillling and pump protection function (option)

RAMSES 722 S

- Mains version
- Synchronous motor drive
- Electronic temperature control
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C

Product selection

Power reserve	Type of connection	Program	Type of contact	Setting range temperature	Operating voltage	Type	Article number
-	2/3-way conductors	Daily program	Changeover contact	+10 °C ... +30 °C	2 AA batteries	RAMSES 784 S	7840801
-	3-/4-conductors	Daily program	Changeover contact	+10 °C ... +30 °C	230 V AC	RAMSES 722 S	7220801

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V

Technical data

	RAMSES 784 S	RAMSES 722 S
Operating voltage	2 AA batteries	230 V AC
Frequency	–	50 Hz
Type of contact	Changeover contact	
Program	Daily program	
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)	
Switching differential	0,4–1,2 K	
Switching output	Potential-free	Potential-free, not for SELV
Setting range temperature	+10 °C ... +30 °C	
Shortest switching times	15 min	
Programmable every	15 min	
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	Synchronised with mains
Stand-by consumption	–	1,3 W
Battery life	approx. 1 year, depending on switching frequency	–
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 5 230 V

↳ Art.No.: 9070441

Details page 344

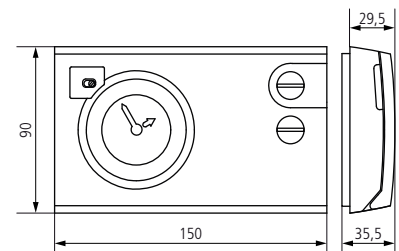
Actuator ALPHA 5 24 V

Details page 344

Adapter RAMSES 72x/78x

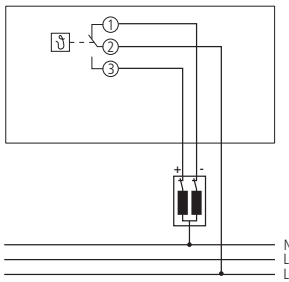
Details page 343

Scale drawings

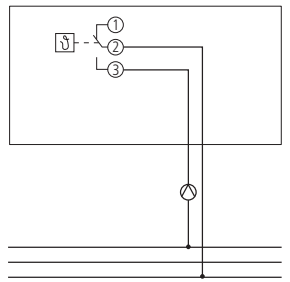


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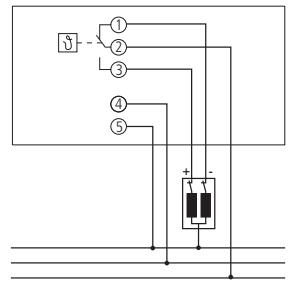
Connection diagrams



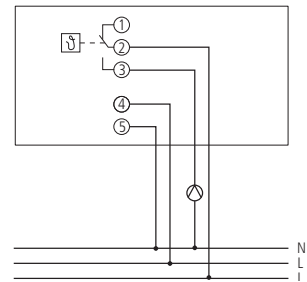
RAMSES 784 S



RAMSES 784 S



RAMSES 722 S



RAMSES 722 S

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V



Description

Common functions

- Analogue clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
- Operating point and electronic recirculation are set from the front
- Party switch and program display

RAMSES 784

- Battery version
- Tappet program disc with daily or weekly program
- Electronic temperature control
- Normal and reduced temperature can be set separately
- Quartz mechanism
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C
- Battery monitoring with battery replacement indicator via flashing LED
- Silting and pump protection function (option)

RAMSES 722

- Mains version

- Tappet program disc with daily or weekly program
- Synchronous motor drive
- Normal and reduced temperature can be set separately
- Electronic temperature control
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C

RAMSES 782

- Mains version
- Tappet program disc with daily or weekly program
- Quartz mechanism, 3 day power reserve
- Normal and reduced temperature can be set separately
- Electronic temperature control
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C

RAMSES 721

- Mains version
- Tappet program disc with daily program

- Synchronous motor drive
- Normal temperature can be set
- Reduced temperature approx. 5 K lower in relation to the set comfort temperature
- Without selector switch
- Electronic temperature control
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C

RAMSES 725

- Mains version
- Tappet program disc with daily or weekly program
- Synchronous motor drive
- Reduced temperature can be set
- Central control of reduced temperature as per time program
- Electronic temperature control
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C

Product selection

Power reserve	Type of connection	Program	Type of contact	Setting range temperature	Operating voltage	Type	Article number
-	2/3-way conductors	Daily/weekly program	Changeover contact	+10 °C ... +30 °C	2 AA batteries	RAMSES 784	7840030
	3-/4-conductors	Daily/weekly program	Changeover contact	+10 °C ... +30 °C	230 V AC	RAMSES 722	7220030
3 days	3-/4-conductors	Daily/weekly program	Changeover contact	+10 °C ... +30 °C	230 V AC	RAMSES 782	7820030
-	3-/4-conductors	Daily program	Changeover contact	+10 °C ... +30 °C	230 V AC	RAMSES 721	7210030
		Daily/weekly program	Changeover contact	+10 °C ... +30 °C	230 V AC	RAMSES 725	7250030

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V

Technical data

	RAMSES 784	RAMSES 722	RAMSES 782	RAMSES 721	RAMSES 725
Operating voltage	2 AA batteries	230 V AC			
Frequency	–	50 Hz	50–60 Hz	50 Hz	
Type of contact	Changeover contact				
Program	Daily/weekly program			Daily program	Daily/weekly program
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)				
Switching differential	0,4–1,2 K			1,5 K	
Switching output	Potential-free	Potential-free, not for SELV			
Setting range temperature	+10 °C ... +30 °C				
Shortest switching times	20 min, 120 min			20 min	20 min, 120 min
Programmable every	5 min, 30 min			5 min	5 min, 30 min
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	Synchronised with mains	$\leq \pm 1$ s/day (quartz)	Synchronised with mains	
Power reserve	–	3 days		–	
Stand-by consumption	–	~1,3 W	1,1 W	1,3 W	1,4 W
Battery life	approx. 1 year, depending on switching frequency	–			
Type of protection	IP 20				
Protection class	II according to EN 60 730-1				

Accessories



Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344

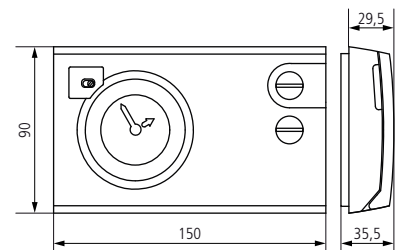
Actuator ALPHA 5 24 V

Details page 344

Adapter RAMSES 72x/78x

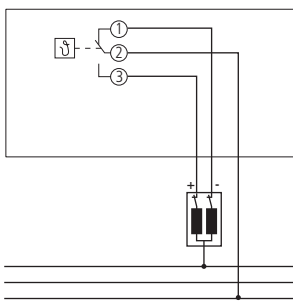
Details page 343

Scale drawings

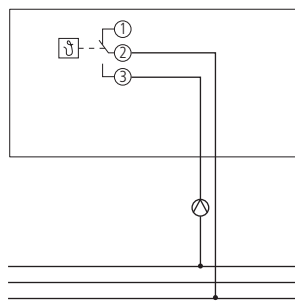


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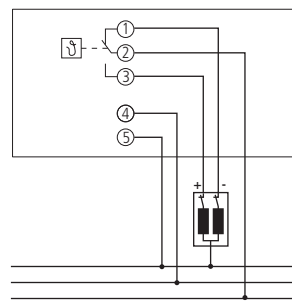
Connection diagrams



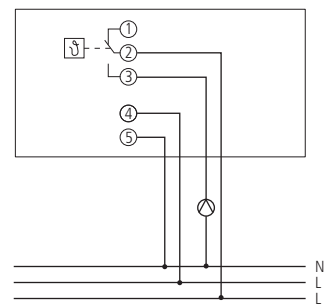
RAMSES 784



RAMSES 784



RAMSES 722, RAMSES 782,
RAMSES 721, RAMSES 725









RAMSES 722, RAMSES 782,
RAMSES 721, RAMSES 725



The perfect work climate

Cause and effect: Whoever wants to act efficiently must create the best conditions for themselves and their employees. The right attitude is decisive. Theben provides it with products such as presence detectors, room thermostats or KNX systems for home and building automation, we help people live, work and achieve more in a relaxed way and in a pleasant atmosphere. As a company we offer exactly that to our employees: a reliable work environment. For us, it's a sign of our professionalism.

	Type of connection	Switching capacity at 230 V AC	Type of contact	Operating voltage	Installation type	Type	Page
Mechanical							
	2/3-way conductors	10 (4) A	NC contact	230–240 V AC	Surface-mounted	RAMSES 701	220
	3-/4-conductors	10 (4) A	NC contact	230–240 V AC	Surface-mounted	RAMSES 702	220
						RAMSES 703	220
						RAMSES 704	220
						RAMSES 705	220
4/5-way conductor	10 (4) A	NC contact	230–240 V AC	Surface-mounted	RAMSES 706	220	
						RAMSES 707	220
3-/4-conductors	Heating: 10 (4) A Cooling: 5 (2) A	Changeover contact	230–240 V AC	Surface-mounted	RAMSES 708	220	
4/5-way conductor	Heating: 10 (4) A Cooling: 5 (2) A	Changeover contact	230–240 V AC	Surface-mounted	RAMSES 709	220	
	2/3-way conductors	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 741	222
	4/5-way conductor	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 746	222
	3-/4-conductors	Heating: 10 (4) A Cooling: 5 (1) A	Changeover contact	230–240 V AC	Flush-mounted	RAMSES 748	222
	2/3-way conductors	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 741 RA	222
	4/5-way conductor	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 746 RA	222
	3-/4-conductors	Heating: 10 (4) A Cooling: 5 (1) A	Changeover contact	230–240 V AC	Flush-mounted	RAMSES 748 RA	222
Electronic							
	2/3-way conductors	8 A (at 230 V AC, cos φ = 1)	NC contact	230 V AC	Surface-mounted	RAMSES 714	224
	4/5-way conductor	16 A (at 230 V AC, cos φ = 1)	NC contact	230 V AC	Surface-mounted	RAMSES 714 A	224
	5-way conductor	16 (4) A	NO contact	230 V AC	Flush-mounted	RAMSES 751 RA	224

Climate control

Room thermostats, Mechanical



Description

Common functions

- Room temperature controller with thermal feedback
- Suitable for all types of heating, e.g. gas, water, electric heating with central/individual room control
- Setting controller with mechanical setting limit or detection

RAMSES 702

- Integrated temperature reduction (approx. 4 K) possible via control with time switch

RAMSES 703

- Internal setting: Temperature cannot be set externally. Temperature is set inside the device at start-up

- Integrated temperature reduction (approx. 4 K) possible via control with time switch

RAMSES 704

- Switch for additional heating ON/OFF + indicator lamp

RAMSES 705

- Switch for heating ON/OFF

RAMSES 706

- Switch for heating ON/OFF + indicator lamp
- Integrated temperature reduction (approx. 4 K) possible via control with time switch

RAMSES 707

- Switch for heating ON/OFF

- Switch for additional heating ON/OFF + indicator lamp

RAMSES 708

- Also suitable for air conditioning equipment
- Heating/cooling changeover contact


RAMSES 709

- Also suitable for air conditioning equipment
- Heating/cooling changeover contact
- 3-way selector switch for: comfort mode, reduction mode, external reduction
- Indicator lamp
- External temperature reduction (approx. 4 K) possible via control with time switch

Product selection

Type of connection	Type of contact	Switching capacity at 230 V AC	Setting range temperature	Operating voltage	Type	Article number
2-/3-way conductors	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 701	7010001
3-/4-conductors	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 702	7020001
					RAMSES 703	7030001
					RAMSES 704	7040001
					RAMSES 705	7050001
4/5-way conductor	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 706	7060001
					RAMSES 707	7070001
3-/4-conductors	Changeover contact	Heating: 10 (4) A Cooling: 5 (2) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 708	7080001
4/5-way conductor	Changeover contact	Heating: 10 (4) A Cooling: 5 (2) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 709	7090001

Technical data

	RAMSES 701–RAMSES 707	RAMSES 708–RAMSES 709
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Type of contact	NC contact	Changeover contact
Switching capacity	10 A (at 230 V AC, $\cos \varphi = 1$), 4 A (at 230 V AC, $\cos \varphi = 0.6$)	Heating: 10 A (at 230 V AC, $\cos \varphi = 1$), 4 A (at 230 V AC, $\cos \varphi = 0.6$) Cooling: 5 A (at 230 V AC, $\cos \varphi = 1$), 2 A (at 230 V AC, $\cos \varphi = 0.6$)
Setting range temperature	+5 °C ... +30 °C	
Control accuracy	Approx. 1 K, thermal recirculation	
Test approval		
Colour	Pure white (similar to RAL 9010)	
Installation type	Surface-mounted	
Type of protection	IP 30	
Protection class	II according to EN 60 730-1	

Accessories

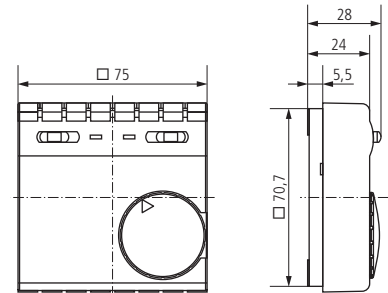


Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344

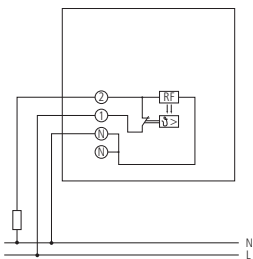


Adapter plate RAMSES 70x
↳ Art.No.: 9070480
Details page 343

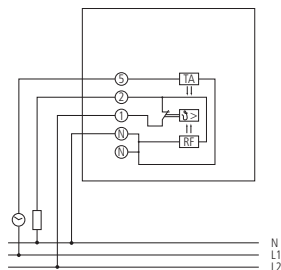
Scale drawings



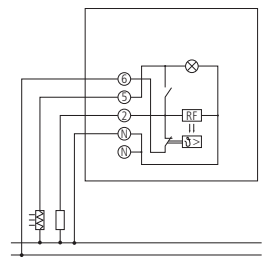
Connection diagrams



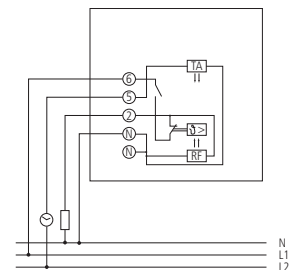
RAMSES 701



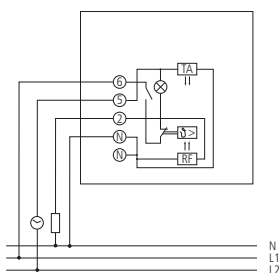
RAMSES 702, RAMSES 703



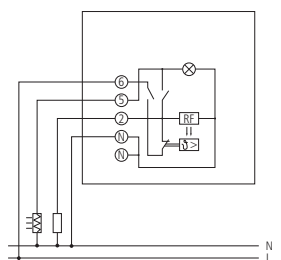
RAMSES 704



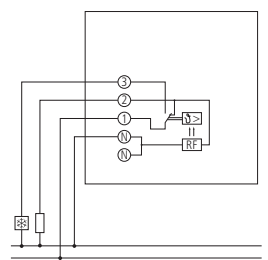
RAMSES 705



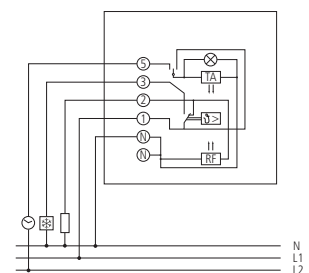
RAMSES 706



RAMSES 707



RAMSES 708



RAMSES 709

Climate control

Room thermostats, Mechanical



Description

Common functions

- Room temperature controller with thermal feedback
- Central part fits nearly all frames using an adapter frame from the switch manufacturer
- Ideal controller for refurbished and new build properties

RAMSES 741

- Supplied as replacement device without frame, central part and setting button, incl. protective cap
- Frame, central part and setting button available as accessories

RAMSES 746

- Switch for heating ON/OFF + indicator lamp
- Supplied as replacement device without frame, central part and setting button, incl. protective cap
- Frame, central part and setting button available as accessories

RAMSES 748

- Heating/cooling two-way switch
- Supplied as replacement device without frame, central part and setting button, incl. protective cap

- Frame, central part and setting button available as accessories

RAMSES 741 RA

- With frame, central part and setting button

RAMSES 746 RA

- With frame, central part and setting button
- Switch for heating ON/OFF + indicator lamp


RAMSES 748 RA

- Heating/cooling two-way switch
- With frame, central part and setting button

Product selection

Scope of delivery	Type of connection	Type of contact	Switching capacity at 230 V AC	Setting range temperature	Operating voltage	Type	Article number
Without cover	2/3-way conductors	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 741	7410130
	4/5-way conductor	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 746	7460130
	3-/4-conductors	Changeover contact	Heating: 10 (4) A Cooling: 5 (1) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 748	7480130
With cover	2/3-way conductors	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 741 RA	7410131
	4/5-way conductor	NC contact	10 (4) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 746 RA	7460131
	3-/4-conductors	Changeover contact	Heating: 10 (4) A Cooling: 5 (1) A	+5 °C ... +30 °C	230–240 V AC	RAMSES 748 RA	7480131

Technical data

	RAMSES 741	RAMSES 746	RAMSES 748	RAMSES 741 RA	RAMSES 746 RA	RAMSES 748 RA
Operating voltage	230–240 V AC					
Frequency	50–60 Hz					
Type of contact	NC contact		Changeover contact	NC contact		Changeover contact
Switching capacity	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)		Heating: 10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6) Cooling: 5 A (at 230 V AC, cos φ = 1), 1 A (at 230 V AC, cos φ = 0.6)	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)		Heating: 10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6) Cooling: 5 A (at 230 V AC, cos φ = 1), 1 A (at 230 V AC, cos φ = 0.6)
Setting range	+5 °C ... +30 °C					
Control accuracy	approx. 0.5 K, thermal recirculation					
Test approval						
Colour	–			Brilliant pure white (similar to RAL 9010)		
Installation type	Flush-mounted					
Type of protection	–			IP 30		
Protection class	II according to EN 60 730-1					

Accessories



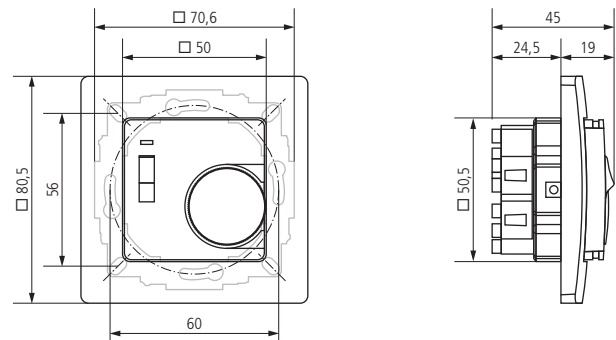
Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344

Central part RAMSES 746
Details page 345

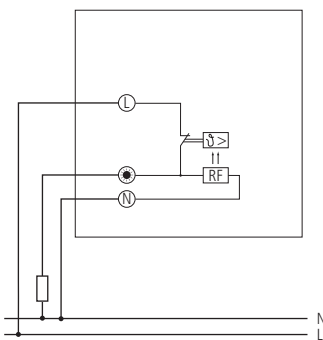
Central part RAMSES 741/748
Details page 345

Frame RAMSES 74x
Details page 345

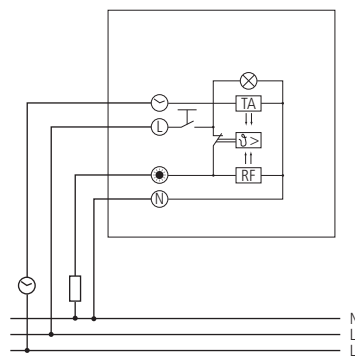
Scale drawings



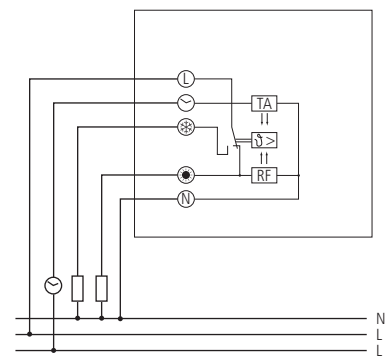
Connection diagrams



RAMSES 741, RAMSES 741 RA



RAMSES 746, RAMSES 746 RA



RAMSES 748, RAMSES 748 RA

Climate control

Room thermostats, Electronic



Description

RAMSES 714

- Electronic room thermostats for all types of heating, e.g. gas, water, electric heating etc.
- Individual room control possible in combination with Theben actuators
- Heating status display via LED
- External temperature reduction (approx. 3.5 K) is possible via control with time switch. Temperature reduction can be cut to 2 K by opening a wire bridge

RAMSES 714 A

As RAMSES 714, but:

- External temperature sensor for underfloor heating (wet rooms or bathroom heating)
- Switchable for the connection of available NTC sensors (33 K Ω /25 °C)
- Switch for heating ON/OFF

RAMSES 751 RA

- Electronic room thermostat with remote temperature sensor for underfloor heating control

- Display of temperature reduction and heating ON
- 2-pole mains switch for heating ON/OFF
- Emergency mode for sensor malfunction at 30 % heating
- Central part fits nearly all frames using an adapter frame from the switch manufacturer

Product selection

Type of connection	Type of contact	Switching capacity at 230 V AC	Setting range temperature	Installation type	Type	Article number
2/3-way conductors	NC contact	8 A (at 230 V AC, cos ϕ = 1)	+5 °C ... +30 °C	Surface-mounted	RAMSES 714	7140002
4/5-way conductor	NC contact	16 A (at 230 V AC, cos ϕ = 1)	+10 °C ... +60 °C	Surface-mounted	RAMSES 714 A	7140016
5-way conductor	NO contact	16 (4) A	+10 °C ... +50 °C	Flush-mounted	RAMSES 751 RA	7510131

Technical data

	RAMSES 714	RAMSES 714 A	RAMSES 751 RA
Operating voltage	230 V AC		
Frequency	50 Hz		
Type of contact	NC contact		NO contact
Switching output	Not potential-free		Potential-free
Switching capacity	8 A (at 230 V AC, cos ϕ = 1)	16 A (at 230 V AC, cos ϕ = 1)	16 A (at 230 V AC, cos ϕ = 1), 4 A (at 230 V AC, cos ϕ = 0.6)
Setting range temperature	+5 °C ... +30 °C	+10 °C ... +60 °C	+10 °C ... +50 °C
Control accuracy	\pm 0.25 K	\pm 0.5 K	
Control behaviour	-		Proportional controller with PWM (continuous type)
Colour	Pure white (similar to RAL 9010)		
Installation type	Surface-mounted		Flush-mounted
Max. cable length	-	Length 4 m, \varnothing 6 mm, (IP 54)	Length 4 m, \varnothing 6 mm, extendable to 50 m
Ambient temperature	-		+0 °C ... +40 °C
Type of protection	IP 20		IP 30
Protection class	II according to EN 60 730-1		

Accessories

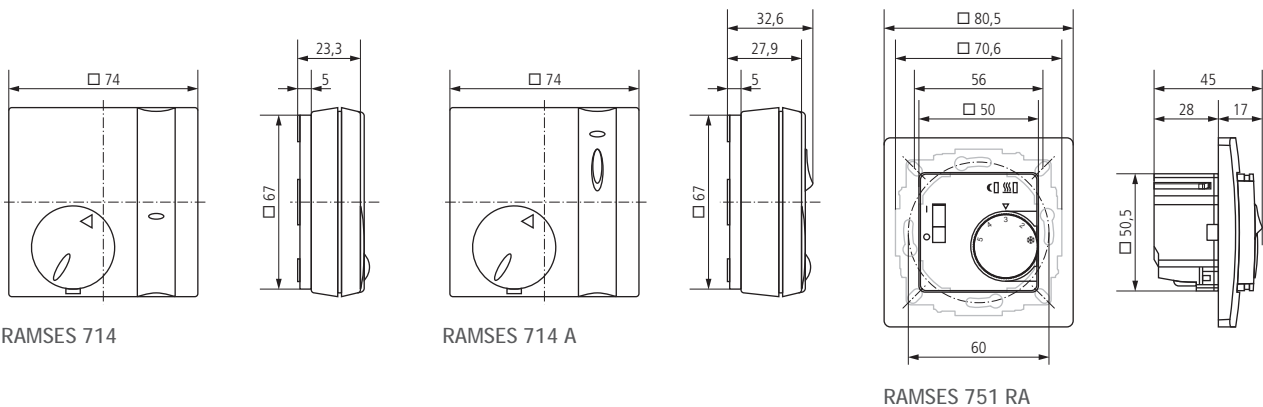


Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344

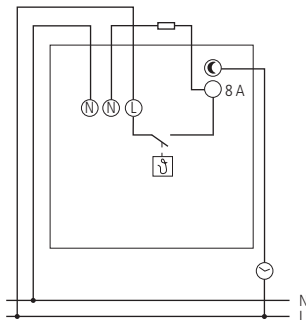


Adapter plate RAMSES 714
for RAMSES 714, RAMSES 714 A
↳ Art.No.: 9070212
Details page 343

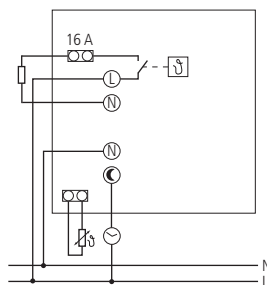
Scale drawings



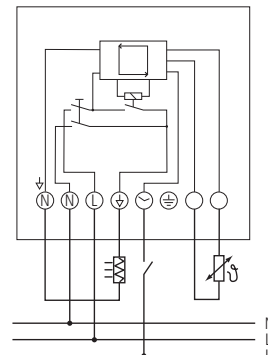
Connection diagrams



RAMSES 714, RAMSES 714 A



RAMSES 714 A





RAMSES 751 RA



The sense for what's fresh

Where a fresh wind blows, there is also room for new ideas. You need a feeling for what is needed – or a sensor. Theben offers many such sensors and each one of them helps inspire the mind. For example in public areas such as schools and universities or in offices. For many people the supply of fresh air is just a stimulus. However mostly it offers more: namely comfort.

Description	Type	Page
CO₂ sensors		
 CO ₂ sensor for ventilation control and monitoring of air quality in the room with switch and analog outputs	AMUN 716 SR	228
Hygrostat		
 Hygrostat for wall installation for control of humidifiers or ventilation and dehumidifier systems	SOTHIS 715	229

Climate control

CO2 sensors



AMUN 716 SR

Description

- CO₂ sensor
- Suitable for conference and meeting rooms, offices, schools/nurseries, passive and low-energy housing.
- For fan control
- Warning display for CO₂ concentration (lights)
- Power unit optionally available. Power unit is suitable for flush mounted installation
- Simple upgrade of uncontrolled ventilation systems possible
- 2 switch outputs CO₂ controlled for 2 stage control, with manual and automatic mode as well as display of switching status
- 3 x 0–10 V outputs for CO₂, temperature and relative humidity

Product selection

Measuring range	Data interface	Display	Operating voltage	Protection class	Type	Article number
Selectable: 0–5000 ppm/0–5000 ppm	3 x 0-10 V, 2 x relay 5 A/250 V AC	LEDs	24 V AC/DC	II according to EN 60 730-1	AMUN 716 SR	7160110

Technical data

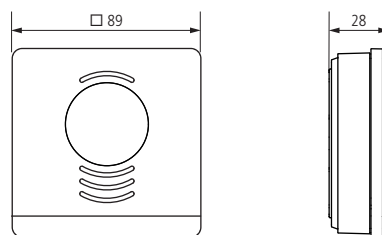
AMUN 716 SR			
Operating voltage	24 V AC/DC SELV	Type of connection	Screw terminals
Outputs	3 x 0-10 V, 2 x relay 5 A/250 V AC	Display	6 LEDs
Measuring range CO ₂	Selectable: 0–5000 ppm or 0–5000 ppm	Installation type	Wall installation (also on flush-mounted socket possible)
Measuring range temperature	+5 °C ... +40 °C	Type of protection	IP 20
Measuring range humidity	30–80 % rH	Protection class	II according to EN 60 730-1
ON/OFF thresholds	700 ppm ±200 ppm, 1300 ppm ±200 ppm		

Accessori



Power unit CO₂-sensor
↳ Art.No.: 9070494
Details page 345

Dimensioni



AMUN 716 SR



Description

- Hygrostat for wall installation
- Measurement of relative humidity
- Suitable for control of humidifiers or ventilation and dehumidifier systems
- Use SELV when there is a risk of high humidity and the build up of condensation

Product selection

Measuring range	Type of contact	Switching capacity humidifier	Switching capacity dehumidifying	Type	Article number
35–100 % rH	Changeover contact	2 A	5 A	SOTHIS 715	7150002

Technical data

SOTHIS 715			
Switching capacity dehumidifying	5 A	Installation type	Wall installation
Switching capacity humidifier	2 A	Type of protection	IP 30
Suitable for SELV	Yes	Protection class	II according to EN 60 730-1
Colour	Pure white (similar to RAL 9010)		

Accessories

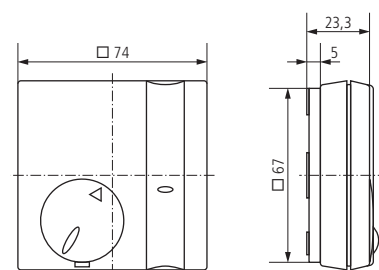


Adapter plate RAMSES 714

↳ Art.No.: 9070212

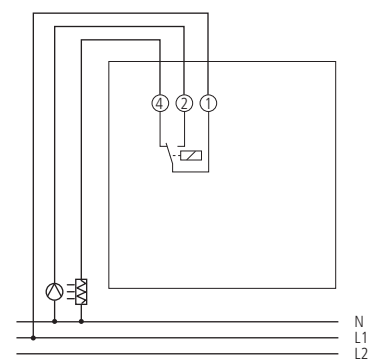
Details page 343

Scale drawings



SOTHIS 715

Connection diagrams

















SOTHIS 715

How innovation arises

Progress thrives on exchanging and from intelligently developing what's already proved itself or applying it to other spheres. Theben is an example of that. Over and over again, through changes in technology, we have pushed open the door to new areas and thus successfully completed the transformation from mechanical to electromechanical systems and digital technology to systems based on bus technology. Behind that lies the competence of our employees - and we do everything to promote that. Because that is the precondition for developing innovations.



Description	Type	Page
Switching actuators		
 Switching actuators	RMG 4 U KNX/RME 4 U KNX/ RM 4 U KNX/RMG 8 S KNX/RME 8 S KNX/RM 8 S KNX/ RM 16 S KNX/RMG 4 I KNX/RME 4 I KNX/RM 4 I KNX/RM 8 I KNX/RM 4 H KNX/ RM 8 H KNX/RMG 8 T KNX/RME 8 T KNX/RM 8 T KNX/RM 16 T KNX	232
Blinds actuators		
 Blinds actuators	JMG 4 T KNX/JME 4 T KNX/JM 4 T KNX/JM 8 T KNX/JMG 4 T 24V KNX/ JME 4 T 24V KNX/JM 4 T 24V KNX/JM 8 T 24V KNX	242
Dimming actuators		
 Universal dimming actuators	DMG 2 T KNX/DME 2 T KNX/DMB 1 T KNX/DM 2 T KNX/DM 4 T KNX/DM 4-2 T KNX/ DM 8-2 T KNX	246
Control units	SMG 2 S KNX/SME 2 S KNX	250
Flush-mounted actuators		
 Switching actuators/ Blinds actuators/ Universal dimming actuators	SU 1 KNX/JU 1 KNX/DU 1 KNX	252
Binary inputs		
 Binary inputs	BMG 6 T KNX/BME 6 T KNX/BM 6 T KNX/BM 12 T KNX	254
Binary inputs for flush-mounted sockets	TA 2 S KNX/TA 4 S KNX/TA 6 S KNX/TA 8 S KNX	256
HVAC controller		
 Multifunction display and room thermostats	VARIA 826 S KNX/RAMSES 718 P KNX/RAMSES 718 S KNX	257
Heating actuators	HMG 6 T KNX/HME 6 T KNX/HM 6 T KNX/HM 12 T KNX/HMT 6 S KNX/HMT 12 S KNX	260
 Motor-driven actuators	CHEOPS control KNX/CHEOPS drive KNX	263
CO ₂ room air sensor	AMUN 716 S KNX	264
Room thermostat Fan-Coil and Fan-Coil actuator	RAMSES 713 FC KNX/FCA 1 KNX /FCA 2 KNX	265
Presence and motion detectors		
 Presence detectors	PresenceLight 360 KNX/thePassa KNX/thePrema KNX/theRonda S KNX/theRonda P KNX/PlanoCentro KNX/PlanoSpot KNX/PlanoSpot S KNX/PresenceLight 180 KNX	268
Motion detectors	theLuxa P KNX	284
Weather station, brightness sensor		
 Weather stations KNX	Meteodata 140 S KNX/Meteodata 139 KNX	286
Brightness and temperature sensors	LUNA 134 KNX/LUNA 131 S KNX/LUNA 133 KNX	289
Digital time switches/Time transmitter		
 8 channel time switch with yearly and astro program	TR 648 top2 RC KNX/TR 648 top2 RC-DCF KNX	292
Time transmitter	ZS 600 DCF KNX	294
Gateways		
 KNX-OpenTherm-Gateway	KNX-OT-Box S	295
KNX-DALI-interface	DALI-Gateway KNX plus	292
System devices		
 Supply voltage	PS 640 mA/320 mA/160 mA	297
Interface and line coupler	IP Interface KNX/IP Router KNX/Interface USB KNX/Line coupler S KNX	298
Display units		
 KNX indoor clocks	OSIRIA KNX	300
Visualisation		
 KNX-Visualisation	theServa S110	302

Home and building control

KNX, Switching actuators



Description

Common functions

- Switching actuator
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning
- Logical links: e.g. lock, AND, release, OR
- Adjustable characteristics: e.g. switching, delayed switching, pulse function
- Links, type of contact (NC contact/NO contact) and participation in central commands such as continuous On, continuous Off, central switching and save/call up scene

RMG 4 U KNX

- 4-way switching actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 12 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of switching actuators is possible without KNX bus module

RME 4 U KNX

- 4-way switching actuator MIX2
- Extension module MIX2
- For upgrading to maximum of 12 channels

RM 4 U KNX

- 4-way switching actuator

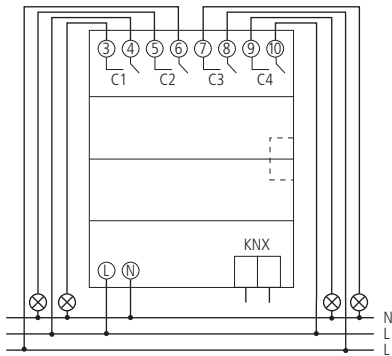
Product selection

Function	Type	Article number
Base module	RMG 4 U KNX	4930223
Extension module	RME 4 U KNX	4930228
Module FIX1	RM 4 U KNX	4940223

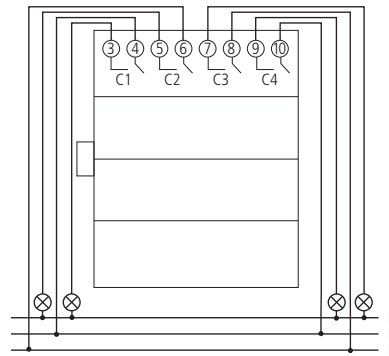
Technical data

	RMG 4 U KNX	RME 4 U KNX	RM 4 U KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 4 mA
Operating voltage	110–240 V AC	–	110–240 V AC
Frequency	50–60 Hz	–	50–60 Hz
Stand-by consumption	0,3 W	0,2 W	0,2 W
Width	4 modules		
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²		
Type of contact	NO contact, 16 A (cos ϕ = 1), 3 A (cos ϕ = 0,6)		
Inrush current	max. 800 A / 200 μ s		
Resistive load	3680 W		
Incandescent lamp load	2000 W		
Incandescent lamp load	1200 W		
Energy saving lamps	300 W		
LED lamp < 2 W	55 W		
LED lamp > 2 W	600 W		
Inrush current	max. 800 A / 200 μ s		
Ambient temperature	–5 °C ... +45 °C		
Type of protection	IP 20		
Protection class	II		

Connection diagrams



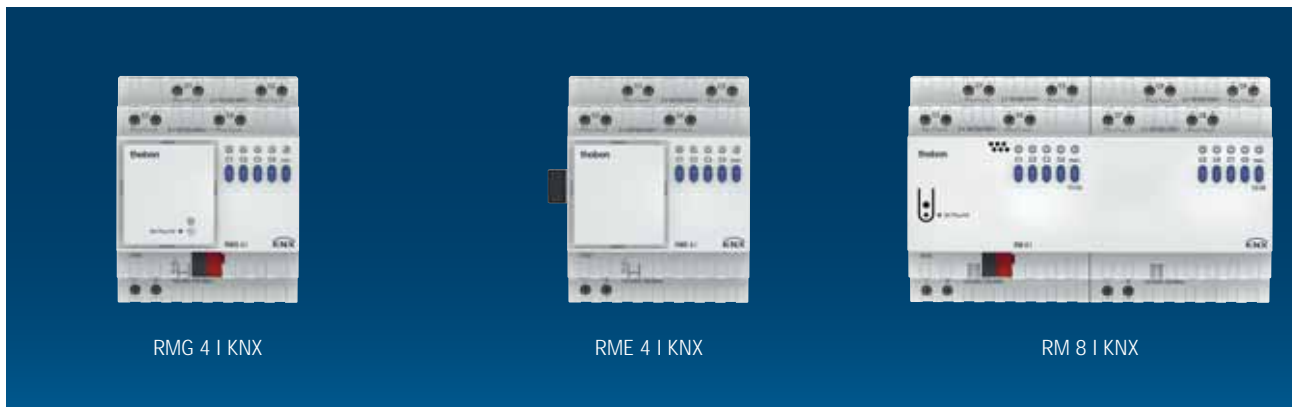
RMG 4 U KNX, RM 4 U KNX



RME 4 U KNX

Home and building control

KNX, Switching actuators



Description

Common functions

- C load switching actuator
- With current recognition
- For higher lamp loads
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning
- Logical links: e.g. lock, AND, release, OR
- Adjustable characteristics: e.g. switching, delayed switching, pulse function
- Links, type of contact (NC contact/NO contact) and participation in central commands such as continuous On, continuous Off, central switching and save/call up scene

RMG 4 I KNX

- 4-way C load switching actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 12 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of switching actuators is possible without KNX bus module

RME 4 I KNX

- 4-way C load switching actuator MIX2
- Extension module MIX2
- For upgrading to maximum of 12 channels

RM 8 I KNX

- 8-way C load switching actuator FIX1
- RM 4 I KNX
- 4-way C load switching actuator FIX2

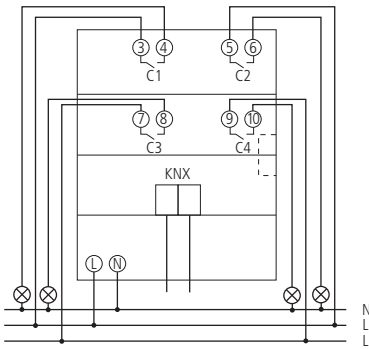
Product selection

Function	Type	Article number
MIX2 Base module	RMG 4 I KNX	4930210
MIX2 Extension module	RME 4 I KNX	4930215
FIX1 module	RM 4 I KNX	4940210
FIX2 module	RM 8 I KNX	4940215

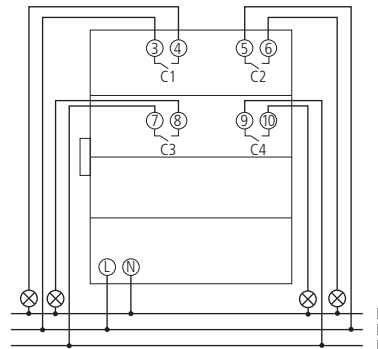
Technical data

	RMG 4 I KNX	RME 4 I KNX	RM 8 I KNX	RM 4 I KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 4 mA	
Operating voltage	110–240 V AC			
Frequency	50–60 Hz			
Stand-by consumption	1,3 W	1,1 W	2,4 W	1,3 W
Width	4 modules		8 modules	4 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²			
Type of contact	NO contact, 16 A (cos $\varphi = 1$), 10 A (cos $\varphi = 0,6$)			
Inrush current	max. 1500 A / 200 μ s			
Resistive load	3680 W			
Incandescent lamp load	2600 W			
Fluorescent lamp load (electronic ballast)	1650 W			
Energy saving lamps	410 W			
LED lamp < 2 W	75 W			
LED lamp > 2 W	600 W			
Inrush current	max. 1500 A / 200 μ s			
Ambient temperature	–5 °C ... +45 °C			
Type of protection	IP 20			
Protection class	II according to EN 60 669			

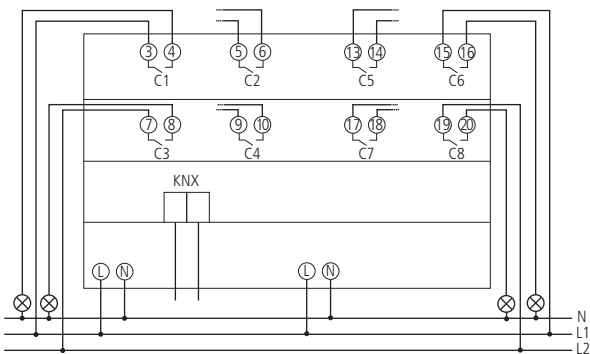
Connection diagrams



RMG 4 I KNX, RM 4 I KNX



RME 4 I KNX



RM 8 I KNX

Home and building control

KNX, Switching actuators



Description

Common functions

- High-performance switching actuator
- Bistable relays
- Switching capacity 25 A
- No additional operating voltage needed (only KNX bus voltage)
- LED switching status display for each channel
- Manual operation on device
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning
- Logical links: e.g. lock, AND, release, OR

RM 4 H KNX

- 4-way high-performance switching actuator FIX1

RM 8 H KNX

- 8-way high-performance switching actuator FIX2

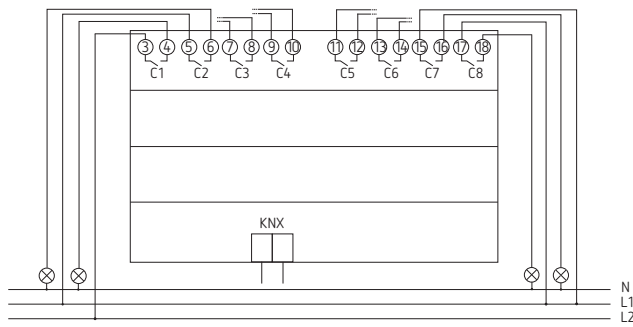
Product selection

Function	Number of channels	Type	Article number
Module FIX1	4	RM 4 H KNX	4940212
Module FIX2	8	RM 8 H KNX	4940217

Technical data

	RM 4 H KNX	RM 8 H KNX
Operating voltage KNX	Bus voltage, ≤ 10 mA	
Width	4 modules	8 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²	
Type of contact	NO contact, 25 A ($\cos \phi = 1$)	
Energy saving lamps	410 W	
LED lamp < 2 W	75 W	
LED lamp > 2 W	850 W	
Inrush current	max. 1200 A / 200 μ s	
Ambient temperature	-5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 669	

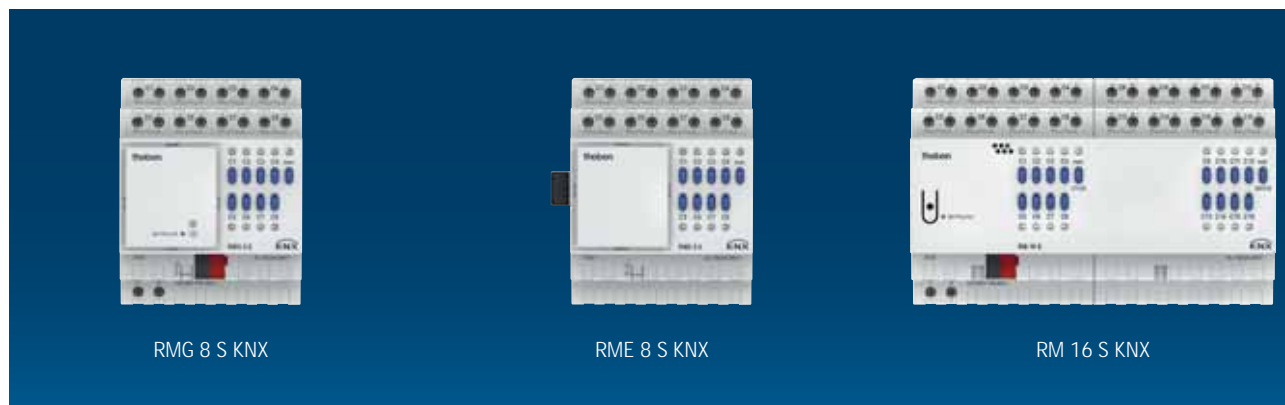
Connection diagrams



RM 8 H KNX

Home and building control

KNX, Switching actuators



Description

Common functions

- Switching actuator
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning
- Logical links: e.g. lock, AND, release, OR
- Adjustable characteristics: e.g. switching, delayed switching, pulse function
- Links, type of contact (NC contact/NO contact) and participation in central commands such as continuous On, continuous Off, central switching and save/call up scene

RMG 8 S KNX

- 8-way switching actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 24 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of switching actuators is possible without KNX bus module

RME 8 S KNX

- 8-way switching actuator MIX2
- Extension module MIX2
- For upgrading to maximum of 24 channels

RM 8 S KNX

- 8-way switching actuator FIX1

RM 16 S KNX

- 16-way switching actuator FIX2

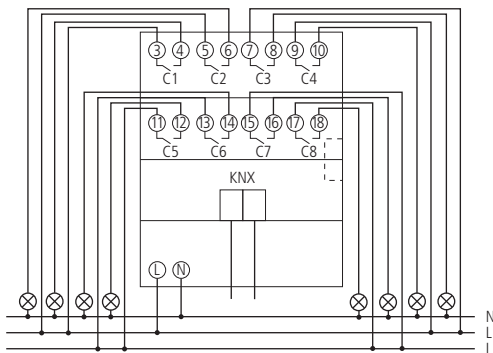
Product selection

Function	Type	Article number
MIX2 Base module	RMG 8 S KNX	4930220
MIX2 Extension module	RME 8 S KNX	4930225
FIX1 module	RM 8 S KNX	4940220
FIX2 module	RM 16 S KNX	4940225

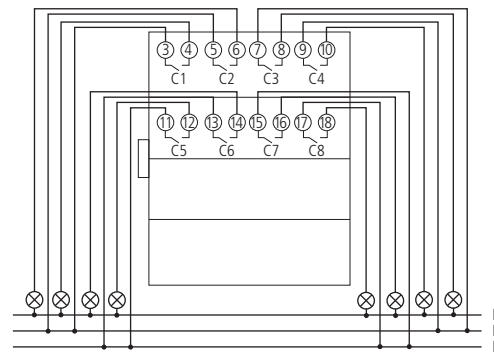
Technical data

	RMG 8 S KNX	RME 8 S KNX	RM 8 S KNX	RM 16 S KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 4 mA	
Operating voltage	110–240 V AC	–	110–240 V AC	
Frequency	50–60 Hz	–	50–60 Hz	
Stand-by consumption	0,3 W	0,2 W	0,3 W	
Width	4 modules			8 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²			
Type of contact	NO contact, 16 A ($\cos \varphi = 1$), 3 A ($\cos \varphi = 0,6$)			
Inrush current	max. 800 A / 200 μ s			
Resistive load	3680 W			
Incandescent lamp load	2000 W			
Incandescent lamp load	1200 W			
Energy saving lamps	300 W			
LED lamp < 2 W	55 W			
LED lamp > 2 W	600 W			
Inrush current	max. 800 A / 200 μ s			
Ambient temperature	–5 °C ... +45 °C			
Type of protection	IP 20			
Protection class	II			

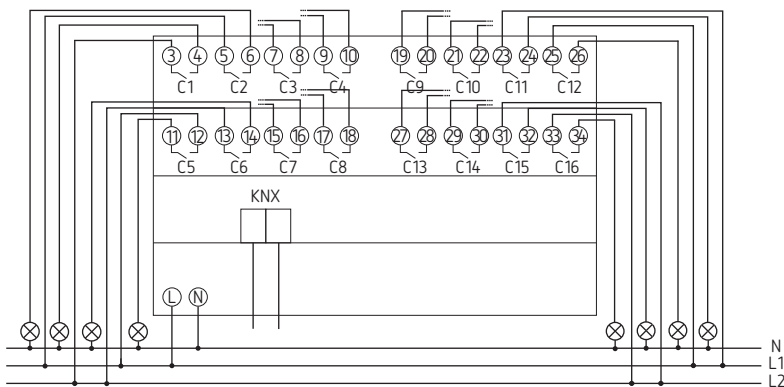
Connection diagrams



RMG 8 S KNX, RM 8 S KNX



RME 8 S KNX



RM 16 S KNX

Home and building control

KNX, Switching actuators



Description

Common functions

- Switching or blind actuator
- Flexible channel function selection as switching actuator or for controlling drives for blinds, shutters, sun and vision protection devices, skylights and ventilation flaps
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning
- Logical links: e.g. lock, AND, release, OR
- Adjustable characteristics: e.g. switching, delayed switching, pulse function
- Links, type of contact (NC contact/NO contact) and participation in central commands such as continuous On, continuous Off, central switching and save/call up scene

RMG 8 T KNX

- 8-way switching or 4-way blind actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 24 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of actuator is possible without KNX bus module

RME 8 T KNX

- 8-way switching or 4-way blind actuator MIX2
- Extension module MIX2
- For upgrading to maximum of 24 channels

RM 8 T KNX

- 8-way switching or 4-way blind actuator FIX1

RM 16 T KNX

- 16-way switching or 8-way blind actuator FIX2

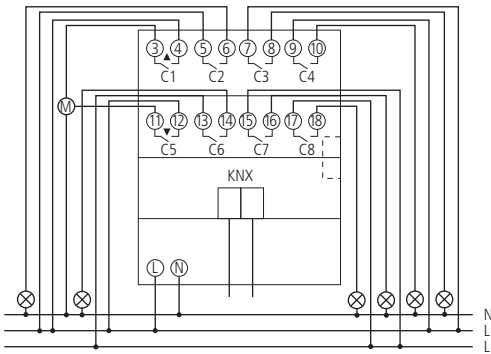
Product selection

Function	Type	Article number
MIX2 Base module	RMG 8 T KNX	4930200
MIX2 Extension module	RME 8 T KNX	4930205
FIX1 module	RM 8 T KNX	4940200
FIX2 module	RM 16 T KNX	4940205

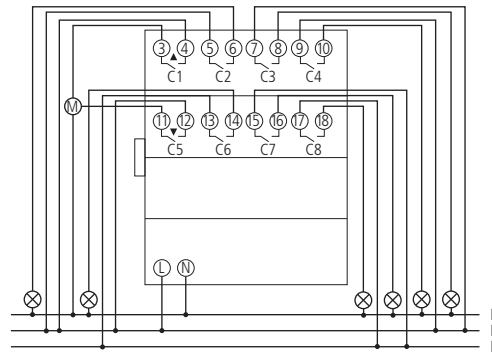
Technical data

	RMG 8 T KNX	RME 8 T KNX	RM 16 T KNX	RM 8 T KNX
Operating voltage KNX	Bus voltage, $\leq 4 \text{ mA}$	–	Bus voltage, $\leq 4 \text{ mA}$	
Operating voltage	110–240 V AC	–	110–240 V AC	
Frequency	50–60 Hz	–	50–60 Hz	
Stand-by consumption	0,3 W	0,2 W	0,5 W	
Width	4 modules		8 modules	4 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²			
Type of contact	NO contact, 16 A ($\cos \varphi = 1$), 3 A ($\cos \varphi = 0,6$)			
Inrush current	max. 800 A / 200 μs			
Resistive load	3680 W			
Incandescent lamp load	2000 W			
Fluorescent lamp load (electronic ballast)	1200 W			
Energy saving lamps	300 W			
LED lamp < 2 W	55 W			
LED lamp > 2 W	180 W			
Inrush current	max. 800 A / 200 μs			
Ambient temperature	–5 °C ... +45 °C			
Type of protection	IP 20			
Protection class	II according to EN 60 669			

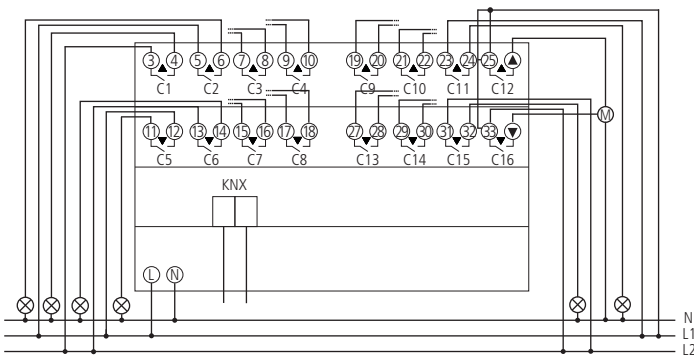
Connection diagrams



RMG 8 T KNX, RM 8 T KNX



RME 8 T KNX



RM 16 T KNX

Home and building control

KNX, Blinds actuators



Description

Common functions

- Blind actuator
- For controlling drives for blinds, shutters, sun and vision protection devices, skylights and ventilation flaps
- Manual operation on device (even without bus connection)
- LED Up and Down switching status display for each channel
- Potential-free contacts for Up and Down per channel
- Copy function for fast configuration
- Setting option for phase sequence and running time of devices

JMG 4 T KNX

- 4-way blind actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 12 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of actuators is possible without KNX bus module
- Free combination of switches, dimming, blinds and heating control as well as binary inputs

JME 4 T KNX

- 4-way blind actuator MIX2
- Extension module MIX2
- Can be upgraded to maximum of 12 channels

JM 4 T KNX

- 4-way blind actuator FIX1

JM 8 T KNX

- 8-way blind actuator FIX2

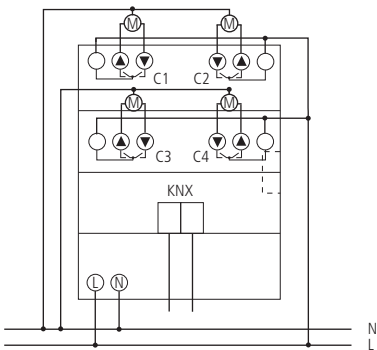
Product selection

Function	Type	Article number
MIX2 Base module	JMG 4 T KNX	4930250
MIX2 Extension module	JME 4 T KNX	4930255
FIX1 module	JM 4 T KNX	4940250
FIX2 module	JM 8 T KNX	4940255

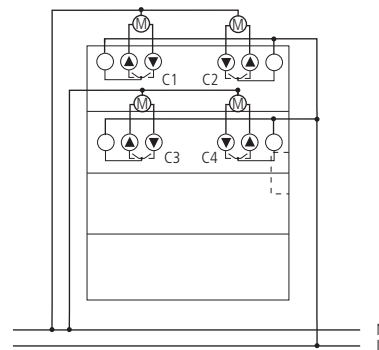
Technical data

	JMG 4 T KNX	JME 4 T KNX	JM 8 T KNX	JM 4 T KNX
Operating voltage KNX	Bus voltage, $\leq 4 \text{ mA}$	–	Bus voltage, $\leq 4 \text{ mA}$	
Operating voltage	110–240 V AC	–	110–240 V AC	
Stand-by consumption	0,3 W	0,2 W	0,5 W	0,3 W
Frequency	50–60 Hz	–	50–60 Hz	
Width	4 modules		8 modules	4 modules
Max. cable cross section	Solid wire: 0.5 mm^2 to 6 mm^2 Stranded wire with end sleeve: 0.5 mm^2 to 4 mm^2			
Type of contact	NO contact, 6 A ($\cos \phi = 1$)			
Ambient temperature	$-5 \text{ }^\circ\text{C} \dots +45 \text{ }^\circ\text{C}$			
Type of protection	IP 20			
Protection class	II according to EN 60 669			

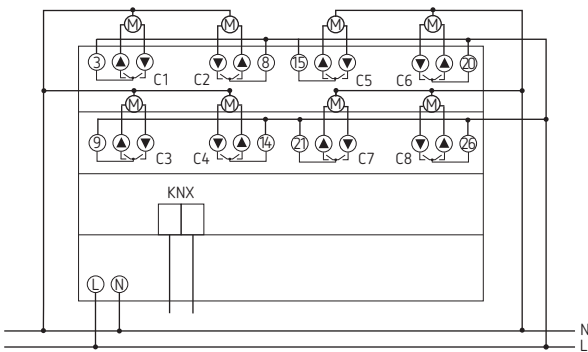
Connection diagrams



JMG 4 T KNX, JM 4 T KNX



JME 4 T KNX



JM 8 T KNX

Home and building control

KNX, Blinds actuators



Description

Common functions

- Blind actuator
- For controlling 24V drives for blinds, shutters, sun and vision protection devices, skylights and ventilation flaps
- Manual operation on device (even without bus connection)
- LED Up and Down switching status display for each channel
- Potential-free contacts for Up and Down per channel
- Setting option for phase sequence and running time of devices
- Copy function for fast configuration

JMG 4 T 24V KNX

- 4-way blind actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 12 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of actuators is possible without KNX bus module
- Free combination of switches, dimming, blinds and heating control as well as binary inputs

JME 4 T 24V KNX

- 4-way blind actuator MIX2
- Extension module MIX2
- Can be upgraded to maximum of 12 channels

JM 4 T 24V KNX

- 4-way blind actuator FIX1

JM 8 T 24V KNX

- 8-way blind actuator FIX2

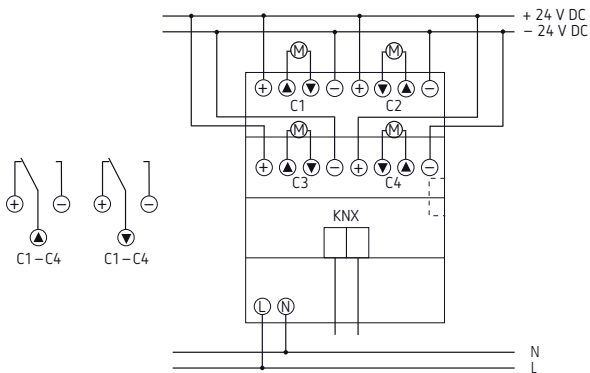
Product selection

Function	Type	Article number
MIX2 Base module	JMG 4 T 24V KNX	4930260
MIX2 Extension module	JME 4 T 24V KNX	4930265
FIX1 module	JM 4 T 24V KNX	4940260
FIX2 module	JM 8 T 24V KNX	4940265

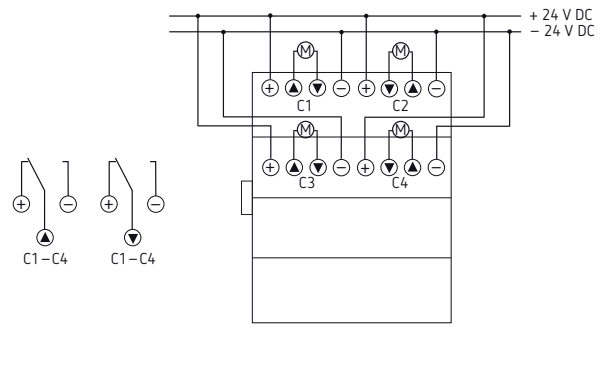
Technical data

	JMG 4 T 24V KNX	JME 4 T 24V KNX	JM 4 T 24V KNX	JM 8 T 24V KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 4 mA	
Operating voltage	110–240 V AC	–	110–240 V AC	
Stand-by consumption	0,3 W	–	0,3 W	0,5 W
Frequency	50–60 Hz	–	50–60 Hz	
Width	4 modules			8 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²			
Type of contact	Changeover contact			
Switching capacity	6 A (at 24 V DC)			
Ambient temperature	–5 °C ... +45 °C			
Type of protection	IP 20			
Protection class	II according to EN 60 730-1			

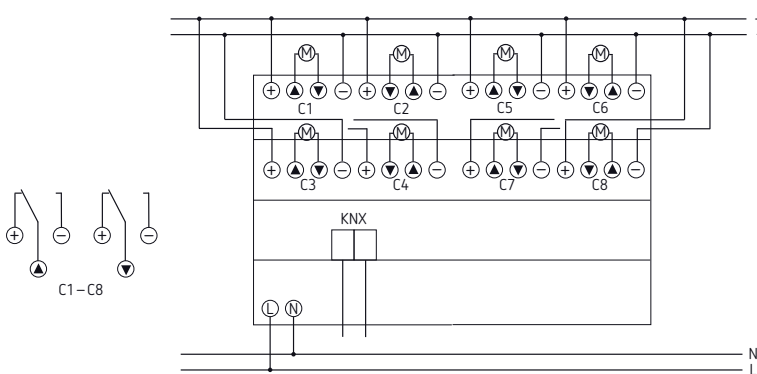
Connection diagrams



JMG 4 T 24V KNX, JM 4 T 24V KNX



JME 4 T 24V KNX



JM 8 T 24V KNX

Home and building control

KNX, Blinds actuators



Description

Common functions

- Universal dimmer actuator
- For dimming dimmable LED, incandescent lamps, LV, HV halogen lamps and Energy saving lamps
- Also suitable for dimming of dimmable energy-saving lamps
- Also suitable for controlling fans
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- The dimming output can be upgraded by using additional dimmboosters „DMB 1 T KNX“ - dimming output 300 W/VA for each dimmbooster. Output to a maximum of 2000 W/VA by using max. 4 boosters possible
- Automatic load detection (can be deactivated)
- For R, L and C loads

DMG 2 T KNX

- 2-way universal dimmer actuator MIX2
- Base module MIX2
- Can be upgraded to maximum of 6 channels
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of switching actuators is possible without KNX bus module
- Dimming output: 400 W per channel or 800 W in parallel operation

DME 2 T KNX

- 2-way universal dimmer actuator MIX2
- Extension module MIX2
- For upgrading to maximum of 6 channels

DM 2 T KNX

- 2-way universal dimmer actuator FIX1

DM 4 T KNX

- 4-way universal dimmer actuator FIX2

DMB 1 T KNX

- 1 channel dimming output extension module „Dimmbooster“

Product selection

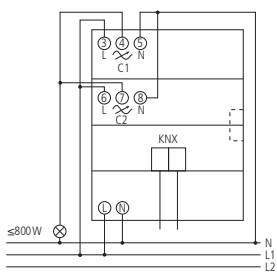
Function	Type	Article number
MIX2 Base module	DMG 2 T KNX	4930270
MIX2 Extension module	DME 2 T KNX	4930275
FIX1 module	DM 2 T KNX	4940270
FIX2 module	DM 4 T KNX	4940275
Dimmbooster	DMB 1 T KNX	4930279

Technical data

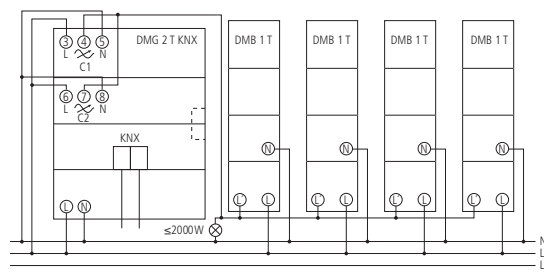
	DMG 2 T KNX	DME 2 T KNX	DM 4 T KNX	DM 2 T KNX	DMB 1 T KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 4 mA		–
Operating voltage	230 V AC				
Frequency	50 Hz				
Stand-by consumption	0,9 W	0,6 W	1,5 W	–	0,2 W
Width	4 modules		8 modules	4 modules	1 modules

	DMG 2 T KNX	DME 2 T KNX	DM 4 T KNX	DM 2 T KNX	DMB 1 T KNX
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²				
Lamp types	Incandescent, low-voltage and high-voltage halogen and dimmable energy saving lamps and LED			Incandescent, low-voltage and high-voltage halogen and dimmable LED	
Switching capacity per channel	400 W			300 W	
Switching capacity in parallel operation	800 W			-	
Dimming capacity LED lamp per channel	Trailing edge (RC-mode): 400 W			45 W	
Dimming capacity LED lamp in parallel operation	Trailing edge (RC-mode): 800 W			-	
Dimming capacity energy saving lamps per channel	Trailing edge (RC-mode): 80 W			-	
Dimming capacity energy saving lamps in parallel operation	Trailing edge (RC-mode): 140 W			-	
Switching capacity min.	5 W				
Ambient temperature	-5 °C ... +45 °C				
Type of protection	IP 20				
Protection class	II according to EN 60 669				

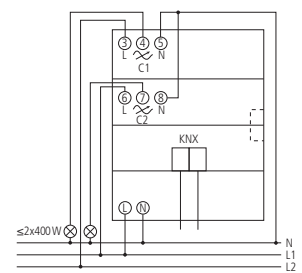
Connection diagrams



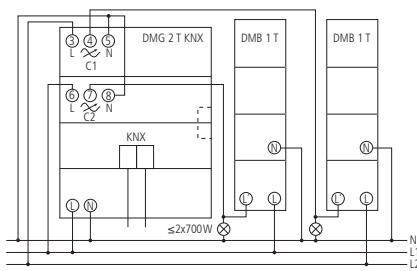
DMG 2 T KNX, DM 2 T KNX



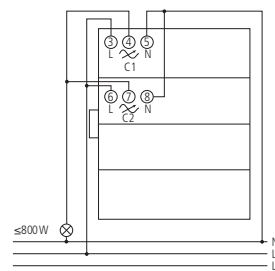
DMG 2 T KNX, DM 2 T KNX



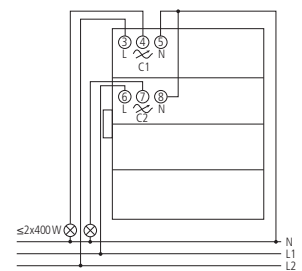
DMG 2 T KNX, DM 2 T KNX



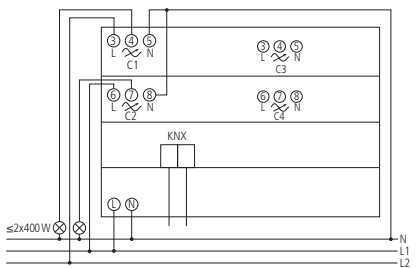
DMG 2 T KNX, DMB 1 T KNX



DME 2 T KNX



DME 2 T KNX



DM 4 T KNX

Home and building control

KNX, Dimming actuators



DM 4-2 T KNX



DM 8-2 T KNX

Description

Common functions

- Universal dimmer actuator
- For dimming dimmable LED, incandescent lamps, LV, HV halogen lamps and energy saving lamps
- Also suitable for dimming of dimmable energy-saving lamps
- Also suitable for controlling fans
- LED switching status display for each channel
- Manual operation on device
- Dimming output: 200 W per channel or 400 W in parallel operation
- Automatic load detection (can be deactivated)
- For R, L and C loads

DM 4-2 T KNX

- 4-way universal dimmer actuator FIX1

DM 8-2 T KNX

- 8-way universal dimmer actuator FIX2

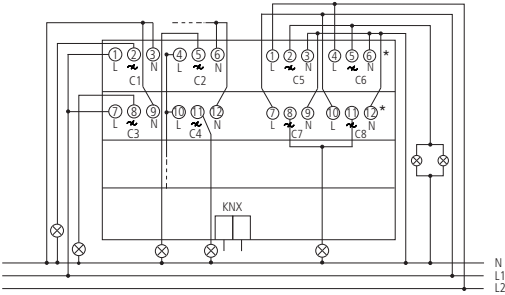
Description

Function	Number of channels	Type	Article number
FIX1 module	4	DM 4-2 T KNX	4940280
FIX2 module	8	DM 8-2 T KNX	4940285

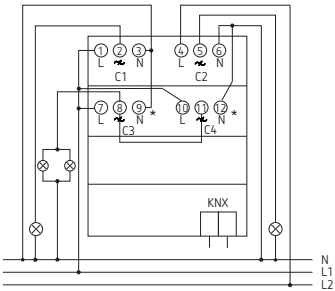
Technical data

	DM 4-2 T KNX	DM 8-2 T KNX
Operating voltage KNX	Bus voltage, ≤ 10 mA	Bus voltage, ≤ 17,5 mA
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Stand-by consumption	< 1 W	
Width	4 modules	8 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²	
Lamp types	Incandescent, low-voltage and high-voltage halogen and dimmable energy saving lamps and LED	
Switching capacity per channel	200 W	
Switching capacity in parallel operation	400 W	
Dimming capacity LED lamp per channel	Trailing edge (RC-mode): 200 W	
Dimming capacity LED lamp in parallel operation	Trailing edge (RC-mode): 400 W	
Dimming capacity energy saving lamps per channel	Trailing edge (RC-mode): 200 W	
Dimming capacity energy saving lamps in parallel operation	Trailing edge (RC-mode): 400 W	
Switching capacity min.	2 W	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 669	

Connection diagrams



DM 8-2 T KNX



DM 4-2 T KNX

Home and building control

KNX, Dimming actuators



SMG 2 S KNX

SME 2 S KNX

Description

Common functions

- 2-way 1–10 V control unit MIX
- Free combination of switching, dimming, blinds and heating control as well as binary inputs
- Switching and dimming of lighting circuits in combination with electronic ballasts (EBs and ballasts LED)

- 1–10 V inputs and one switch output (relay contact) per channel
- LED switching status display for each channel
- Manual switch with On/Off/Bus settings (also without bus voltage)
- Zero-cross switching for relay-saving switching and high lamp loads

SMG 2 S KNX

- Base module MIX
- Can be upgraded to maximum of 6 channels

SME 2 S KNX

- Extension module MIX
- For upgrading to maximum of 6 channels

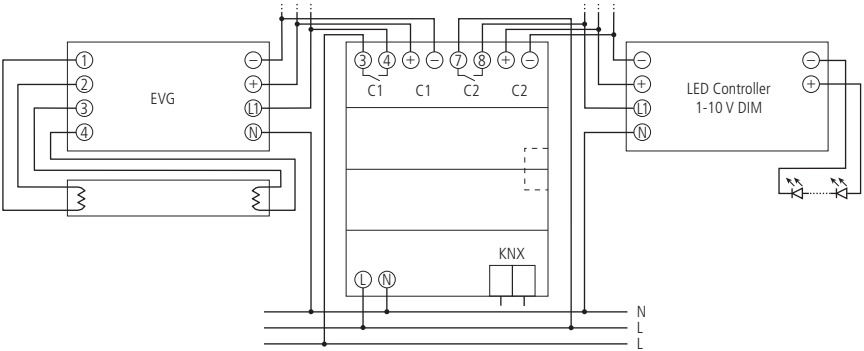
Product selection

Type	Article number
SMG 2 S KNX	4910273
SME 2 S KNX	4910274

Technical data

	SMG 2 S KNX	SME 2 S KNX
Operating voltage KNX	Bus voltage, ≤ 10 mA	–
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	1,6 W	
Width	4 modules	
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²	
Type of contact	NO contact, 16 A (cos φ = 1), 10 A (cos φ = 0,6)	
Incandescent/halogen lamp load	2500 W	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Connection diagrams



Home and building control

KNX, Flush-mounted actuators



Description

SU 1 KNX

- 1-way flush-mounted switching actuator
- 1x NO contact & 1x NC contact with common control
- Adjustable features: NC/NO contact, switching, delayed switching, pulse function
- 2 binary inputs for floating contacts such as buttons, switches, temperature sensor (I2)
- The binary inputs are assigned to the switch output as standard (function test before programming)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload

JU 1 KNX

- 1-way flush-mounted blind/switching actuator
- For controlling drives for blinds, roller blinds, sun and vision protection devices, skylights, and ventilation flaps
- Integrated automatic ventilation function
- Flexible configuration options: blind actuator or 2-channel switch actuator
- 2 binary inputs for floating contacts such as buttons, switches, window contacts, temperature sensor (I2)
- The binary inputs are assigned to the output as standard (function test before programming)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload

DU 1 KNX

- 1-way flush-mounted dimming actuator
- Optimised dimming output for dimmable energy-saving lamps, LEDs, incandescent and halogen lamps, and dimmable transformers
- Easy to adapt to different lamps thanks to automatic load detection
- Adjustable dimming curve for precise and flicker-free dimming
- 2 binary inputs for floating contacts such as buttons, switches, temperature sensor (I2)
- The binary inputs are assigned to the dimming output as standard (function test before programming)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload

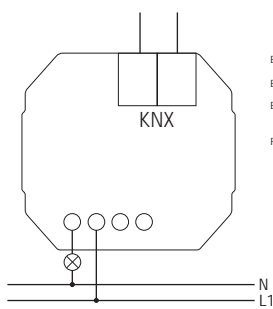
Product selection

Number of channels	Funktionsart	Type	Article number
1	Flush-mounted switching actuator	SU 1 KNX	4942520
	Flush-mounted blind/switching actuator	JU 1 KNX	4942550
	Flush-mounted dimming actuator	DU 1 KNX	4942570

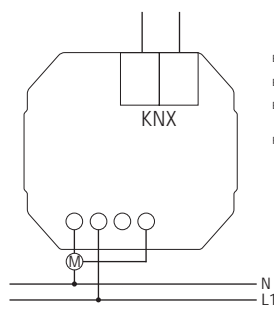
Technical data

	SU 1 KNX	JU 1 KNX	DU 1 KNX
Operating voltage KNX	Bus voltage, <4 mA		
Type of contact	16 A	2x10 A	-
Energy saving lamps	300 W	15 W	-
LED lamp < 2 W	50 W	3 W	Trailing edge (RC-mode): 250 W
LED lamp > 2 W	600 W	30 W	Trailing edge (RC-mode): 250 W
Inrush current	max. 740 A / 200 μ s	-	
Ambient temperature	-5 °C ... +45 °C		

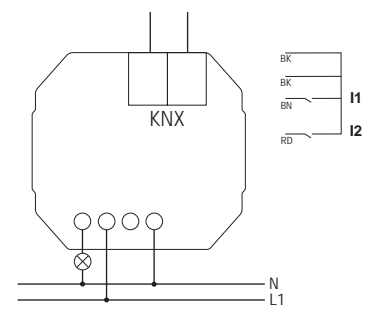
Connection diagrams



SU 1 KNX



JU 1 KNX



DU 1 KNX

Accessories

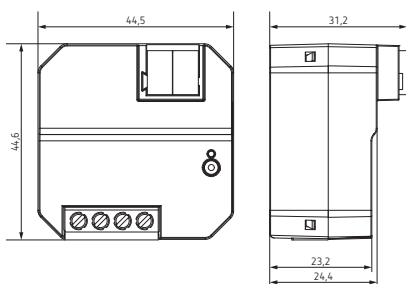
Temperature sensor

Details page 343

Temperature sensor RAMSES IP 65

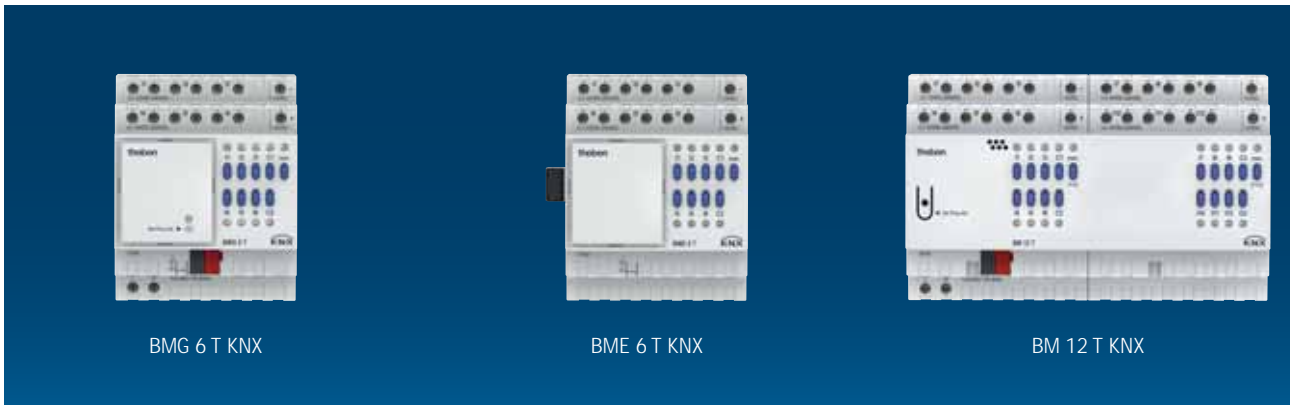
Details page 343

Scale drawings



Home and building control

KNX, Flush-mounted actuators



Description

Common functions

- Binary input
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Manual operation per channel for simulating the input states
- All inputs can be operated with different voltages and at different potentials
- Connectable cable length up to 100 m
- Free allocation of functions: switch/push button, dimming, blinds/roller blinds, counter, repeat telegram, sequences

BMG 6 T KNX

- 6-way binary input MIX2
- Base module MIX2
- Can be upgraded to maximum of 18 channels
- 6 floating universal and wide-range voltage inputs (10–240 V AC/DC or internally generated auxiliary voltage of approx. 12 V DC)
- 2 additional channels operable by buttons on the device, but without input
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of actuator is possible without KNX bus module

BME 6 T KNX

- 6-way binary input MIX2
- Extension module MIX2
- For upgrading to maximum of 18 channels

BM 6 T KNX

- 6-way binary input FIX1
- 6 floating universal and wide-range voltage inputs (10–240 V AC/DC or internally generated auxiliary voltage of approx. 12 V DC)
- 2 additional channels operable by buttons on the device, but without input

BM 12 T KNX

- 12-way binary input FIX2
- 12 floating universal and wide-range voltage inputs (10–240 V AC/DC or internally generated auxiliary voltage of approx. 12 V DC)
- 4 additional channels operable by buttons on the device, but without input

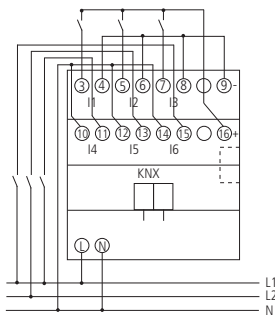
Product selection

Function	Type	Article number
MIX2 Base module	BMG 6 T KNX	4930230
MIX2 Extension module	BME 6 T KNX	4930235
FIX1 module	BM 6 T KNX	4940230
FIX2 module	BM 12 T KNX	4940235

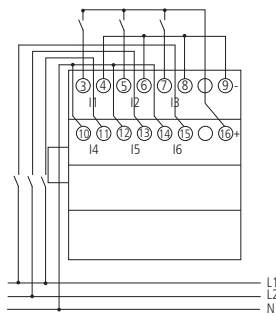
Technical data

	BMG 6 T KNX	BME 6 T KNX	BM 12 T KNX	BM 6 T KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 4 mA	
Operating voltage	110–240 V AC	–	110–240 V AC	
Frequency	50–60 Hz	–	50–60 Hz	
Stand-by consumption	0,3 W	–	0,5 W	0,3 W
Width	4 modules		8 modules	4 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²			
Voltage inputs	10 V DC – 240 V AC 2 mA			
Ambient temperature	–5 °C ... +45 °C			
Type of protection	IP 20			
Protection class	II according to EN 60 730-1			

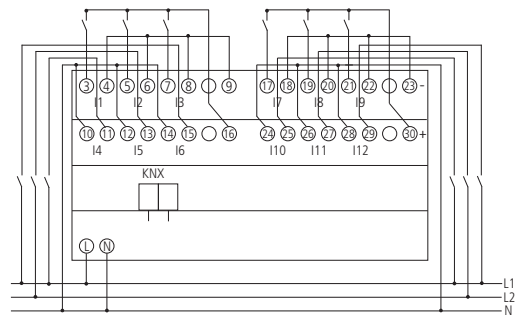
Connection diagrams



BMG 6 T KNX, BM 6 T KNX



BME 6 T KNX



BM 12 T KNX

Home and building control

KNX, Binary inputs



Description

Common functions

- Binary input/binary output sensor interfaces
- Can be installed in flush-mounted sockets with conventional sensors/switches
- Flexible LED controlling, thanks to increased output current of 3 mA commercially available LEDs and low current LEDs can be controlled
- Inputs can be reconfigured to outputs with parameterizable flashing and pulsing function
- Colour coding of wiring pairs

TA 2 S KNX

- 2-way key interface
- 4-pole cable connection
- Free allocation of functions: Switch/key, dimming, blinds, valuator, sequences, controlling LED

TA 4 S KNX

- 4-way key interface
- 6-pole cable connection
- Free allocation of functions: Switch/key, dimming, blinds, valuator, sequences, measuring temperature, controlling LED

- 2 NTC inputs for detection of the actual temperature

TA 6 S KNX

- As TA 4 S KNX, but:
- 6-way key interface
 - 8-pole cable connection

TA 8 S KNX

- As TA 4 S KNX, but:
- 8-way key interface
 - 10-pole cable connection

Product selection

Type	Article number
TA 2 S KNX	4969222
TA 4 S KNX	4969224
TA 6 S KNX	4969226
TA 8 S KNX	4969228

Technical data

	TA S KNX
Operating voltage KNX	Bus voltage, ≤10 mA
Length connecting wires	25 cm
Contact current	0,5 mA
Ambient temperature	-5 °C ... +45 °C
Type of protection	IP 20
Protection class	III

12

Accessories

External temperature sensor 1

Details page 343

Temperature sensor

Details page 343

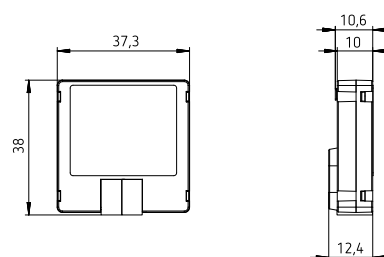
Temperature sensor RAMSES IP 65

Details page 343

Contact temperature sensor

Details page 343

Scale drawings





VARIA 826 S KNX

Description

Common functions

- Multi-functional display with room thermostat
- Glass front in white
- Freely configurable for displaying and controlling functions e.g. light settings, sun protection systems
- Backlit display and integrated time switch

- For control and regulation of heating, fan coils, air conditioning systems
- Up to 7 different display pages
- Automatic summer/winter time adjustment with power reserve
- Controls up to 8 rooms via own temperature profiles
- Weekly time switch with 8 channels with up to 3 different statuses, e.g. for light, shutters, fans etc.
- 3 heating programs
- Alternative continuous or on/off control
- Operation modes: comfort, stand-by, temperature reduction at night, frost protection
- Weather data from Theben weather stations can be displayed
- Free choice of programming via the ETS without plug-in
- Installation in flush-mounted socket

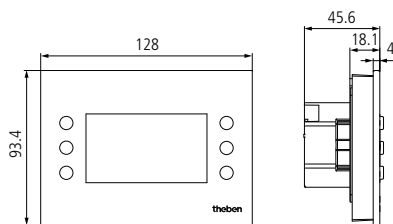
Product selection

Colour	Type	Article number
Glass front in white	VARIA 826 S WH KNX	8269210

Technical data

	VARIA 826 S WH KNX
Operating voltage KNX	Bus voltage, ≤ 15 mA, (< 25 mA without power supply)
Operating voltage	230 V AC
Frequency	50 Hz
Stand-by consumption	0,4 W
Power reserve	1,5 years
Display	Display with 132 x 72 points (8 lines with various functions) e.g. title, switching, dimming, blinds/shutters, % value, HVAC, counter value, temperature, 2-byte value, 8/16 bit counter value etc.
Ambient temperature	0 °C ... +45 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1

Scale drawings



Home and building control

KNX, HVAC controller



Description

- Individual room thermostat
- For controlling heating actuators or motorised actuators
- Can be used as a continuous or two point control (can also be combined).
- Continuous PI control can be configured for 2 stage heating (basic and additional stage, e. g. underfloor heating and radiators) or for heating and cooling (radiators and cooling surfaces)
- Two front panels are included in delivery: a numerical scale and a relative scale
- Rotary control can be limited via parameters
- Manual override button for presence or operation modes: comfort, stand-by, temperature reduction at night, frost protection
- 4 binary inputs for conventional switches/sensors (switching, dimming, blinds), also for external temperature sensor, window contact or presence signal
- Temperature sensor can be connected to give remote temperature reading
- LED (red) for heating mode, (blue) for cooling mode, LEDs for operation mode

Product selection

Type	Article number
RAMSES 718 P KNX	7189210

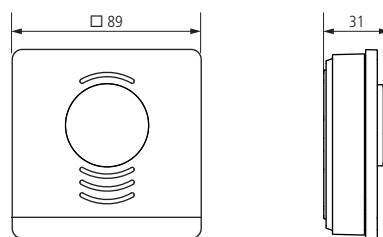
Technical data

RAMSES 718 P KNX			
Operating voltage KNX	Bus voltage, ≤12 mA	Setting range temperature	+10 °C ... +30 °C
Interface extension max.	30 m	Type of protection	IP 20
Ambient temperature	+5 °C ... +40 °C	Protection class	III according to EN 60 730-1
Measuring range temperature	-5 °C ... +45 °C		

Accessories

- External temperature sensor 1
Details page 343
- Temperature sensor
Details page 343
- Temperature sensor RAMSES IP 65
Details page 343

Scale drawings



RAMSES 718 P KNX



Description

- Individual room thermostat
- For controlling heating actuators or motorised actuators
- Can be used as a continuous or two point control (can also be combined)
- Temperature sensor can be connected to give remote temperature reading
- Objects for night operation (only with „old“ operation mode selection) presence, window/frost
- LED (red) for heating mode, (blue) for cooling mode
- 4 binary inputs for conventional switches/sensors (switch/sensor, dimmer, blinds, valuator, LED control)

Product selection

Type	Article number
RAMSES 718 S KNX	7189200

Technical data

RAMSES 718 S KNX			
Operating voltage KNX	Bus voltage, ≤12 mA	Setting range temperature	+10 °C ... +30 °C
Interface extension max.	30 m	Type of protection	IP 20
Ambient temperature	+5 °C ... +40 °C	Protection class	III according to EN 60 730-1
Measuring range temperature	-5 °C ... +45 °C		

Accessories

External temperature sensor 1

Details page 343

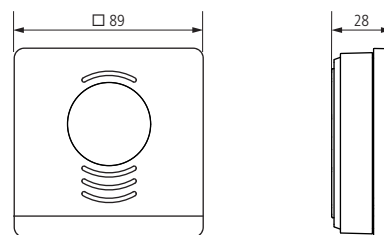
Temperature sensor

Details page 343

Temperature sensor RAMSES IP 65

Details page 343

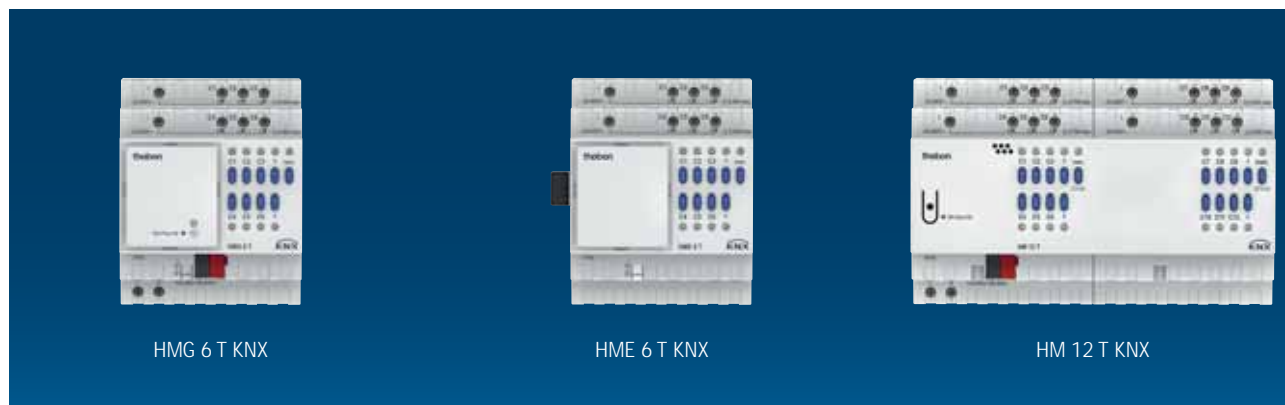
Scale drawings



RAMSES 718 S KNX

Home and building control

KNX, HVAC controller



Description

Common functions

- Heating actuator
- Short-circuit-proof and overcharge protected
- Continuous or switching actuating value selectable
- Valve protection function can be deactivated
- With the modes: comfort, standby, night as well as frost/heating protection
- Changeover to summer mode possible
- LED switching status display for each channel
- Manual operation on device (even without bus connection)

HMG 6 T KNX

- 6-way heating actuator MIX2
- With 6 temperature controllers (P/PI) for heating and cooling
- Base module MIX2
- Can be upgraded to maximum of 18 channels
- For controlling 6 thermal actuators 24 V–240 V AC in 2 groups with 3 outputs and 450 mA each
- Up to two extension modules MIX or MIX2 can be connected to one base module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of actuator is possible without KNX bus module

HME 6 T KNX

- 6-way heating actuator MIX2
- With 6 temperature controllers (P/PI) for heating and cooling
- Extension module MIX2
- For upgrading to maximum of 18 channels

HM 6 T KNX

- 6-way heating actuator FIX1
- With 6 temperature controllers (P/PI) for heating and cooling
- For controlling 6 thermal actuators 24 V–240 V AC in 2 groups with 3 outputs and 450 mA each

HM 12 T KNX

- 12-way heating actuator FIX2
- With 12 temperature controllers (P/PI) for heating and cooling
- For controlling 12 thermal actuators 24 V–240 V AC in 4 groups with 3 outputs and 450 mA each

Product selection

Function	Type	Article number
MIX2 Base module	HMG 6 T KNX	4930240
MIX2 Extension module	HME 6 T KNX	4930245
FIX1 module	HM 6 T KNX	4940240
FIX2 module	HM 12 T KNX	4940245

Technical data

	HMG 6 T KNX	HME 6 T KNX	HM 12 T KNX	HM 6 T KNX
Operating voltage KNX	Bus voltage, ≤ 4 mA	–	Bus voltage, ≤ 12 mA	Bus voltage, ≤ 4 mA
Operating voltage	110–240 V AC	–	110–240 V AC	
Frequency	50–60 Hz	–	50–60 Hz	
Stand-by consumption	0,3 W	0,2 W	0,5 W	0,3 W
Width	4 modules		8 modules	4 modules
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²			
Switching output	Not potential-free			
Output	Triac, 0,45 A			
Ambient temperature	–5 °C ... +45 °C			
Type of protection	IP 20			
Protection class	II according to EN 60 669			

Accessories

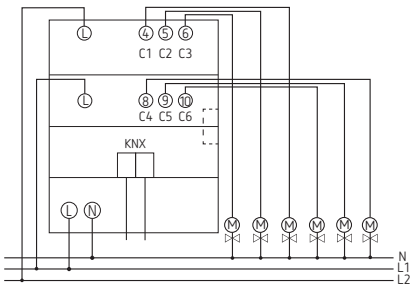


Actuator ALPHA 5 230 V
↳ Art.No.: 9070441
Details page 344

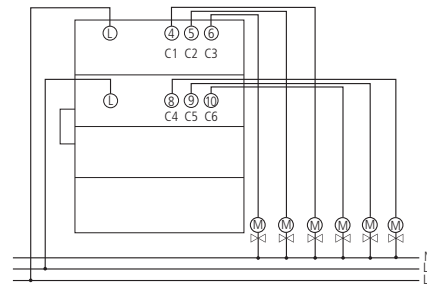


Actuator ALPHA 5 24 V
↳ Art.No.: 9070442
Details page 344

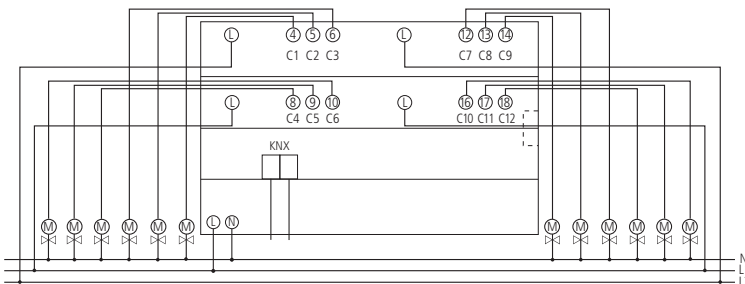
Connection diagrams



HMG 6 T KNX, HM 6 T KNX



HME 6 T KNX



HM 12 TKNX

Home and building control

KNX, HVAC controller



HMT 6 S KNX

Description

- Heating actuator for controlling thermal actuators, switching 24 V DC or permanently 0–10 V DC
- Integration of up to 2 heating circuit pumps
- Flow temperature adjustment to meet requirements: Automatic calculation of the maximum actuating value for energy-efficient adjustment of the actuating value to actual requirements
- No KNX room thermostat needed: Flexible use of each channel as a heating actuator or heating controller
- Can be installed directly on a rail in the heating circuit distributor
- Screwless terminal technology
- Integrated power supply for a maximum of 12 thermal actuators
- Silent semiconductor switch (triac)
- For integrating boiler control
- Continuous or switching actuating value selectable

HMT 6 KNX

- 6-way

HMT 12 KNX

- 12-way

Product selection

Type	Article number
HMT 6 S KNX	4900373
HMT 12 S KNX	4900373

Technical data

	HMT 6 S KNX	HMT 12 S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	
Operating voltage	230–240 V AC	
Stand-by consumption	< 1 W	
Frequency	50–60 Hz	
Number of channels	6	12
Switching capacity	Valve output: 24 V SELV; 0.4 A peak; 0.12 A permanent or 0-10 V at at least 1250 ohm 24 V output terminal: max. 1.4 A	
Switch output	5 A, 240 V AC floating (pump)	
Ambient temperature	-5 °C ... +50 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories

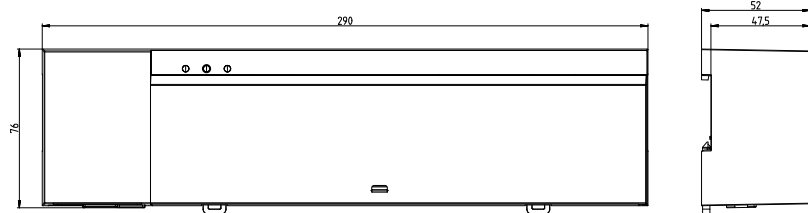


Actuator ALPHA 5 24 V

↳ Art.No.: 9070442

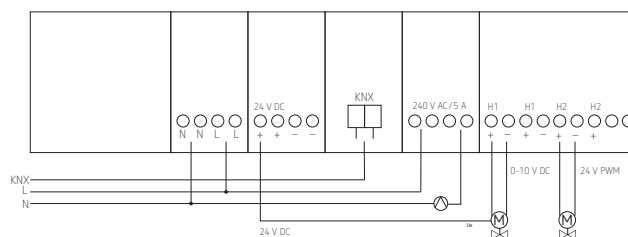
Details page 344

Scale drawings



HMT 6 S KNX, HMT 12 S KNX

Connection diagrams



HMT 6 S KNX



Description

Common functions

- Motorised actuator for heater valve or for controlling the heating valves
- Display of valve stroke
- Automatic valve stroke recognition
- 2 inputs for window contact, presence detector, remote sensor (remote sensor only for CHEOPS control and only 9070191)
- Simple installation by clicking onto valve adapter
- Can be used in heating circuit distributor

- Integrated bus coupling unit
- With summer mode and valve protection
- 2 different valve adapters included (VA 10, VA 78)

CHEOPS control KNX

- Independent room thermostat and integrated temperature sensor
- Manual operation possible via 2 keys on the device
- Display via LEDs (red/blue for hotter/colder)
- Configurable as: Heating control (continuous control), two stage heating, heating and cooling

CHEOPS drive KNX

- Without integrated control
- Display via LEDs (red)

Product selection

Type	Article number
CHEOPS control KNX	7329201
CHEOPS drive KNX	7319200

Technical data

	CHEOPS control KNX	CHEOPS drive KNX
Operating voltage KNX	Bus voltage, ≤ 10 mA	
Max. valve stroke	7,5 mm	
Controlling torque details	120 N	
Ambient temperature	0 °C ... +50 °C	
Dimensions	50 mm, 82 mm, 65 mm	
Protection class	III according to EN 60730-2-14	
Type of protection	IP 20	IP 21

Accessories

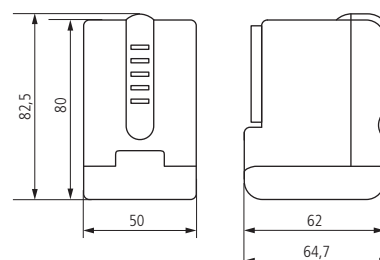
External temperature sensor 1

Details page 343

Valve adapter VA 80

Details page 344

Scale drawings



Home and building control

KNX, HVAC controller



Description

- CO₂ airquality sensor with integrated individual room thermostat
- Measures CO₂ level, relative humidity, temperature and barometric air pressure
- Three independent, configurable thresholds for the CO₂ level and relative humidity
- CO₂ setting range of 300-5000 ppm
- Actions can be carried out if thresholds are exceeded or not reached (send, priority, switching, value)
- For controlling heating actuators or motorised actuators
- Two front panels are included in delivery: a numerical and a relative scale
- Manual override button for presence or operation modes: comfort, stand-by, temperature reduction at night, frost protection
- 4 binary inputs for conventional switches/sensors (switching, dimming, blinds), also for external temperature sensor, window contact or presence signal
- Display of the current operating mode and heating/cooling mode through multi-colored LED

Product selection

Type	Article number
AMUN 716 S KNX	7169230

Technical data

AMUN 716 S KNX			
Operating voltage KNX	Bus voltage, ≤15 mA	Contact voltage	5 V, Internal provided
Measuring range CO ₂	300–5000 ppm	Contact current	0,5 mA
Measuring range temperature	-5 °C ... +45 °C	Number of inputs	4
Measuring range humidity	1–100 % rH	Ambient temperature	+5 °C ... +40 °C
Measuring range air pressure	30000–110000 Pa	Type of protection	IP 20
Interface extension max.	30 m	Protection class	III according to EN 60 730-1

Accessories

External temperature sensor 1

Details page 343

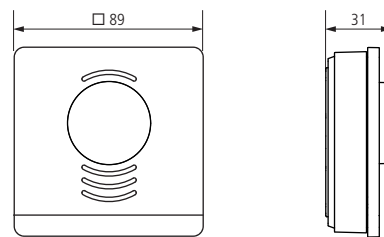
Temperature sensor

Details page 343

Temperature sensor RAMSES IP 65

Details page 343

Scale drawings



AMUN 716 KNX



RAMSES 713 FC KNX

Description

- Individual room thermostat fan coil
- For control of fan coil
- Continuous PI controller for heating and cooling
- Two rotary controls are included in delivery: an absolute scale (mounted) and 1 relative scale (enclosed)
- Rotary control can be limited mechanically or via parameters.
- Manual button for OFF, Auto, fan stages 1, 2, 3 operation modes
- 3 binary inputs for conventional switches/sensors (switching, dimming, blinds), also for external temperature sensor, window contact or presence signal
- LED (red) for heating mode, (blue) for cooling mode
- With integrated bus coupling unit

Product selection

Type	Article number
RAMSES 713 FC KNX	7139202

Technical data

RAMSES 713 FC KNX			
Operating voltage KNX	Bus voltage, ≤10 mA	Setting range temperature	+10 °C ... +28 °C
Ambient temperature	+0 °C ... +50 °C	Type of protection	IP 20
Measuring range temperature	+0 °C ... +40 °C	Protection class	II according to EN 60 730-1

Accessories

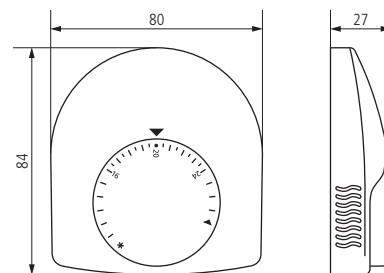
External temperature sensor 1

Details page 343

Temperature sensor

Details page 343

Scale drawings



RAMSES 713 FC KNX

Home and building control

KNX, HVAC controller



FCA 1 KNX

FCA 2 KNX

Description

Common functions

- Fan coil actuator
- For controlling fan coils
- For 2 and 4 pipe systems
- For up to three fan stages
- Additional relay for electrical heater or cooler bank
- Potential-free input for window contacts or temperature sensor
- Potential-free, condensation monitoring
- Display of operation status via 9 LEDs
- Manual operation on device (fan satges, switching between heating and cooling)
- Adjustment of setpoint value for cooling in relation to external temperature
- Potential-free switching contact for either cooler or heater bank
- With emergency program

FCA 1 KNX

- For 2-way and 3-way valves

FCA 2 KNX

- Optionally with 0-10 V fan control
- For proportional 0-10 V valves

Product selection

Type	Article number
FCA 1 KNX	4920200
FCA 2 KNX	4920210

Technical data

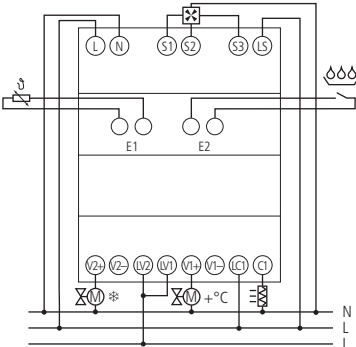
	FCA 1 KNX	FCA 2 KNX
Operating voltage KNX	Bus voltage, ≤10 mA	Bus voltage, ≤8 mA
Operating voltage	220–230 V AC	100–240 V AC
Frequency	50–60 Hz	
Stand-by consumption	1,9 W	0,5 W
Width	4 modules	
Max. cable cross section	Solid wire: 0.5 mm ² to 6 mm ² Stranded wire with end sleeve: 0.5 mm ² to 4 mm ²	
Type of contact	Triac	NO contact
Switching capacity additional relay	16 A	
Switching capacity blower relay	8 A	6 A
Ambient temperature	-5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories

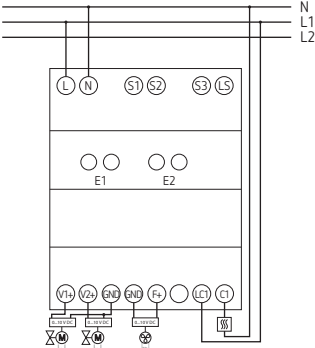
Temperature sensor
↳ Art.No.: 9070321
Details page 343



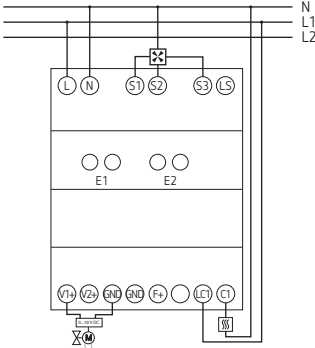
Connection diagrams



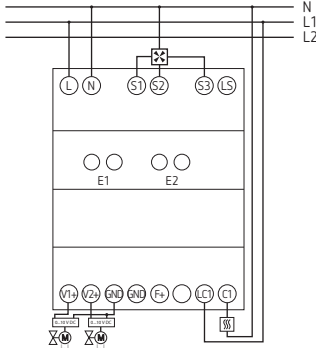
FCA 1 KNX



FCA 2 KNX



FCA 2 KNX



FCA 2 KNX

Home and building control

KNX, Presence detectors



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Square detection area allows accurate and simple planning
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- Integrated bus coupling unit
- IP 54 for versatile use
- 2 channels light for controlling one or two lighting groups
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Switching or constant light control with stand-by function
- Adjustable sensitivity
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Short presence; Reduced switch-off delay time in case of a short presence
- Self-learning time delay
- Channel presence with switch-off delay and switch-on delay time and send values
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Channel brightness (Lux)
- Set brightness level via bus object
- Scene functionality (8-bit scenes)
- Selected parameters can be configured remotely using the theSenda B remote control. Parameter settings are made via ETS
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Parallel switching of several presence detectors (master-slave or master-master) possible
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

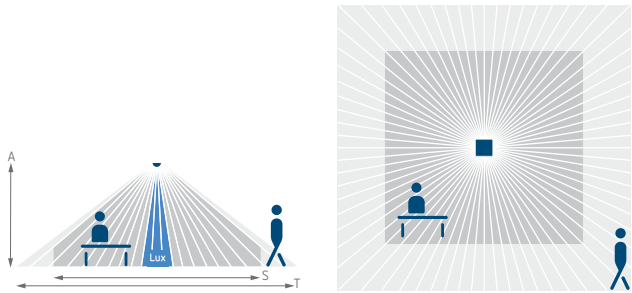
Installation type	Colour	Type	Article number
Ceiling installation	Pure white (similar to RAL 9010)	PresenceLight 360B-KNX WH	2009000

Technical data

	PresenceLight 360B-KNX
Operating voltage KNX	Bus voltage, approx. 13 mA (17 mA LED on)
Installation height	2–3,5 m
Setting range brightness	approx. 5–2000 lx/measuring off
Light switch-off delay	30 s–60 min
Stand-by time light	30 s–60 min, on, inactive
Presence switch-off delay	10 s–120 min
Presence switch-on delay	10 s–30 min/inactive
Ambient temperature	–10 °C ... +50 °C
Type of protection	IP 54

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4,5 m x 4,5 m ± 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m ± 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4,5 m x 4,5 m
3,5 m	64 m ² 8 m x 8 m ± 1 m	-



Accessories



Surface frame PresenceLight
↳ Art.No.: 9070513
Details page 336



theSenda B
↳ Art.No.: 9070985
Details page 341



QuickSafe
↳ Art.No.: 9070531
Details page 338



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

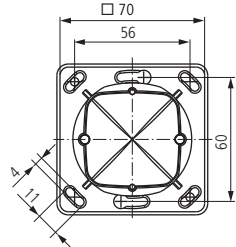
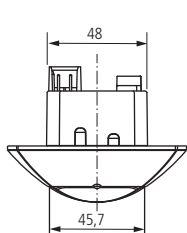
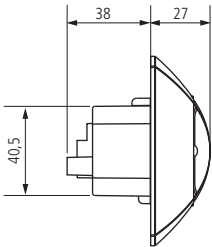
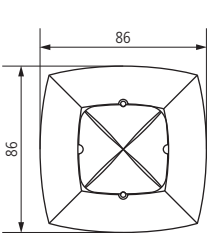
Cover frame PresenceLight 360 SR
Details page 336

Cover frame PresenceLight 360 BK
Details page 336

Surface frame PresenceLight BK
Details page 336

Surface frame PresenceLight SR
Details page 336

Scale drawings





Description

- KNX Passive infrared presence detector for ceiling mounting
- Square detection area for corridors and storage areas
- Detection area with 2 individually connectable and disconnectable detection zones, each 15 x 5 m (total 30 x 5 m)
- 2 channel light and 2 channel presence
- 2 channel light C1, C2 with 2 light measurements
- 2 presence channels can be parametrized individually
- Adaptable 2 channel light measurement
- Function aura effect, switches on the lighting group when there is a person in its detection area and dims the adjacent lighting groups
- Function chaser light, recognises the direction of movement of the people in the room and „predictively“ switches on the adjacent lighting group
- Function walking direction recognition
- Mixed light measurement suitable for LEDs, fluorescent lamps (FL/PL/ESL) and halogen/incandescent lamps
- Can be used as fully or semi-automatic, switchable
- Switch or constant light control mode with stand-by function
- Dimmable lighting in switch mode with stand-by function
- Brightness switching value or set point value can be set in lux using parameters, on the device itself or via remote control
- Teaching in of the brightness switching value or the set point value
- Room correction factor setting for brightness measurement calibration
- Light time delay can be set using parameters, on the device itself or via remote control
- Switch on delay and time delay for presence can be set
- Detection sensitivity can be set
- Reduced time delay in the event of a shorter stay in the room (short presence)
- Scenario functions
- Test mode for checking function and detection range
- Sensitivity adjustable
- Detection area can be limited using cover clip
- Manual override using telegram or remote control
- Parallel switching of several detectors in Master/Slave or Master/Master possible
- Ceiling installation in flush-mounted socket
- Ceiling installation also possible with surface-mounted frame
- User remote control and management-remote control (optional)

Product selection

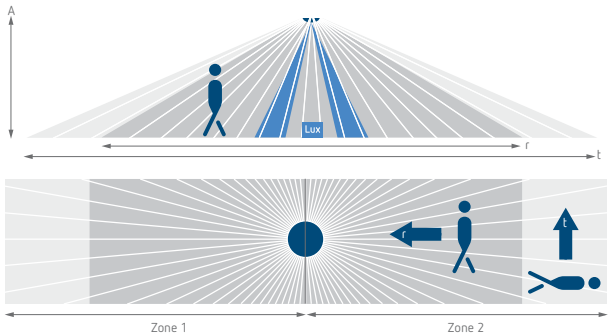
Installation type	Colour	Type	Article number
Ceiling installation	White	thePassa P360 KNX UP WH	2019300
	Grey	thePassa P360 KNX UP GR	2019301

Technical data

	thePassa P360 KNX UP WH
Operating voltage KNX	Bus voltage, ca. 9 mA
Installation height	2 – 6 m
Minimum height	> 1,7 m
Setting range brightness	10–3000 lx
Light switch-off delay	30 s–60 min
Presence switch-off delay	10 s–120 min
Switch-on delay presence	10 s–30 min / inactive
Ambient temperature	–15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Rectangular)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	56 m ² 16 m x 3,5 m	56 m ² 16 m x 3,5 m
2,5 m	72 m ² 18 m x 4 m	88 m ² 22 m x 4 m
3 m	90 m ² 20 m x 4,5 m	135 m ² 30 m x 4,5 m
3,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
4 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
4,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
5,5 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m
6 m	100 m ² 20 m x 5 m	150 m ² 30 m x 5 m



Accessories



Surface frame 110A WH
↳ Art.No.: 9070912
Details page 337



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

QuickSafe
Details page 338

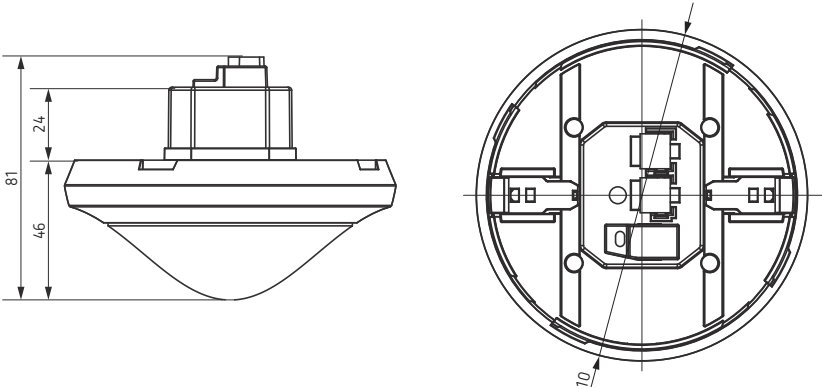
theSenda B
Details page 341

Surface frame 110A GR
Details page 337

Ceiling installation box 73A
Details page 337

Masking clip
Details page 337

Scale drawings



Home and building control

KNX, Presence detectors



Description

- KNX Passive infrared presence detector for ceiling installation
- Circular detection area 360°, up to Ø 9 m (64 m²)
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Mixed light measurement suitable for fluorescent (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- 2 light channels C1, C2
- Switching operation or constant light control with standby function (orientation light)
- Switching mode with dimmable lighting
- Choice of fully or semi-automatic
- Brightness switching value or set point value can be set in lux by using parameters, the object or via remote control
- Teach-in of the brightness switching value or the set point value
- Reduction of time delay when present briefly (short-term presence)
- Manual override by telegram or remote control
- 2 presence channels C4, C5, individually configurable
- Switch-on delay and time delay configurable
- Setting the room correction factor for brightness measurement comparison
- Adjustable sensitivity
- Test mode for checking function and detection area
- Scenes
- Parallel switching of multiple presence detectors (Master/Slave or Master/Master)
- User remote control «theSenda S» (option)
- Management remote control «theSenda B» (option)
- Installation remote control «theSenda P» (option)

Product selection

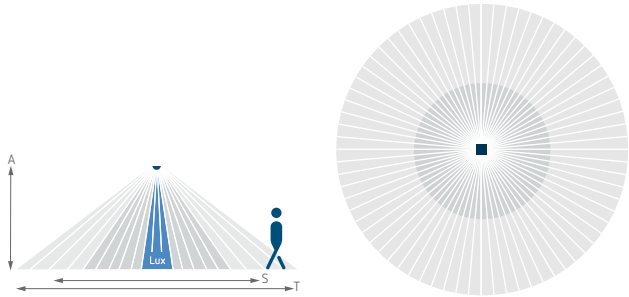
Installation type	Colour	Type	Article number
Ceiling installation	White	theRonda S360 KNX AP WH	2089550
	Grey	theRonda S360 KNX AP GR	2089551
	White	theRonda S360 KNX DE WH	2089560
	Grey	theRonda S360 KNX DE GR	2089561

Technical data

	theMova S360 KNX AP	theMova S360 KNX DE
Operating voltage KNX	Bus voltage, 9 mA	
Installation height	2–4 m	
Setting range brightness	approx. 30–3000 lx/measuring off	
Light switch-off delay	30 s–60 min	
Presence switch-off delay	10 s–120 min	
Presence switch-on delay	10 s–30 min/inactive	
Ambient temperature	–15 °C ... +50 °C	
Type of protection	IP 54 (when fitted)	

Detection range (Round)

Mounting height (A)	Sitting (S)	Walking (T)
2 m	5 m ² 2,5 m	38 m ² 7 m
2,5 m	7 m ² 3 m	38 m ² 7 m
3 m	13 m ² 4 m	50 m ² 8 m
3,5 m	-	50 m ² 8 m
4 m	-	64 m ² 9 m



Accessories



theSenda B
↳ Art.No.: 9070985
Details page 341

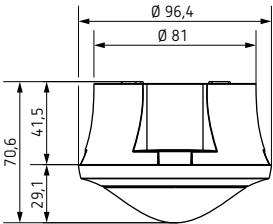


theSenda P
↳ Art.No.: 9070910
Details page 341

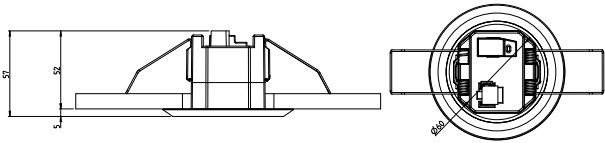
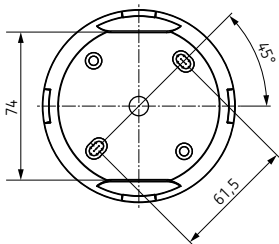


theSenda S
↳ Art.No.: 9070911
Details page 341

Scale drawings



theRonda S360 KNX AP



theRonda S360 KNX FLAT DE



Description

- KNX Passive infrared presence detector for ceiling mounting
- Round detection area 360°, up to Ø 24 m (452 m²)
- 2 channels light and 2 channels presence
- 2 channels light C1, C2 with 1 light measurement
- 2 presence channels can be parametrized individually
- Adaptable 1 channel light measurement
- Mixed light measurement suitable for LEDs, fluorescent lamps (FL/PL/ESL) and halogen/incandescent lamps
- Can be used as fully or semi-automatic, switchable
- Switch or constant light control mode with stand-by function
- Dimmable lighting in switch mode with stand-by function
- Brightness switching value or set point value can be set in lux using parameters, on the device itself or via remote control
- Teaching in of the brightness switching value or the set point value
- Room correction factor setting for brightness measurement calibration
- Light time delay can be set using parameters, on the device itself or via remote control
- Switch on delay and time delay for presence can be set
- Detection sensitivity can be set
- Reduced time delay in the event of a shorter stay in the room (short presence)
- Scenario functions
- Test mode for checking function and detection range
- Sensitivity adjustable
- Detection area can be limited using cover clip
- Manual override using telegram or remote control
- Parallel switching of several detectors in Master/Slave or Master/Master possible
- Ceiling installation in flush-mounted socket
- Ceiling installation also possible with surface-mounted frame
- User remote control and management-remote control (optional)

Product selection

Installation type	Colour	Type	Article number
Ceiling installation	White	theRonda P360 KNX UP WH	2089000
	Grey	theRonda P360 KNX UP GR	2089001

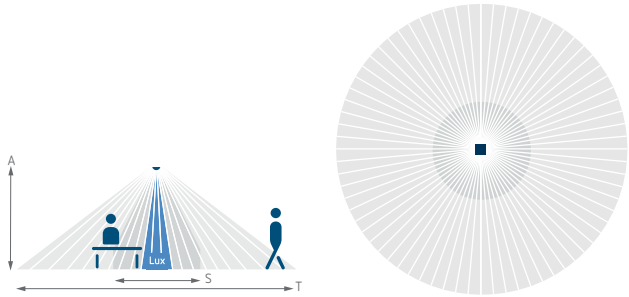
Technical data

	theRonda P360 KNX UP
Operating voltage KNX	Bus voltage, approx. 8 mA (9 mA LED on)
Installation height	2 – 10 m
Setting range brightness	10 – 3000 lx/measuring off
Light switch-off delay	30 s – 60 min
Stand-by dimming value	1 – 25 % of the lamp output
Stand-by time	30 s – 60 min / inactive / permanently on
Presence switch-off delay	10 s – 120 min
Presence switch-on delay	10 s – 30 min / inactive
Ambient temperature	- 15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Round)

Mounting height (A)	Sitting (S)	Walking diagonally (T)	Walking head on to
2 m	16 m ² 4,5 m	380 m ² 22 m	28 m ² 6 m
2,5 m	24 m ² 5,5 m	415 m ² 23 m	38 m ² 7 m
3 m	28 m ² 6 m	452 m ² 24 m	50 m ² 8 m
3,5 m	38 m ² 7 m	452 m ² 24 m	50 m ² 8 m
6 m	-	452 m ² 24 m	50 m ² 8 m
10 m	-	491 m ² 25 m	50 m ² 8 m

With a mounting height of more than 3.5 m walking motions are necessary and the detection areas of several detectors should overlap in the marginal zone. All figures are up to values. The detection range decreases with increasing temperatures.



Accessories



Surface frame 110A WH
↳ Art.No.: 9070912
Details page 337



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

QuickSafe
Details page 338

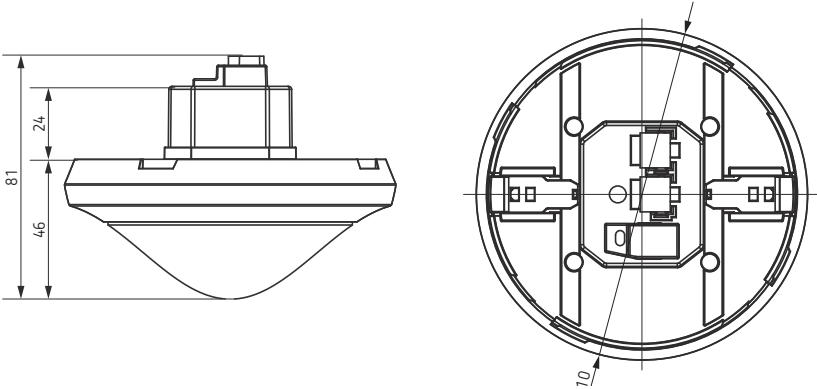
theSenda B
Details page 341

Surface frame 110A GR
Details page 337

Ceiling installation box 73A
Details page 337

Masking clip
Details page 337

Scale drawings



Home and building control

KNX, Presence detectors



Description

Common functions

- KNX Passive infrared presence detector for ceiling mounting
- Square detection range of 360° for safe and easy planning
- Mixed light measurement suitable for LEDs, fluorescent lamps (FL/PL/ESL) and halogen/incandescent lamps
- Can be used as fully or semi-automatic, switchable
- Switch or constant light control mode with stand-by function
- Dimmable lighting in switch mode with stand-by function
- Brightness switching value or set point value can be set in lux using parameters, on the device itself or via remote control
- Teaching in of the brightness switching value or the set point value

- Room correction factor setting for brightness measurement calibration
- Light time delay can be set using parameters, on the device itself or via remote control
- Switch on delay and time delay for presence can be set
- Detection sensitivity can be set
- Self-learning time delay
- Reduced time delay in the event of a shorter stay in the room (short presence)
- Scenario functions
- Extremely easy setting of energy saving characteristics with the new „eco plus“ function
- Test mode for checking function and detection range
- Parallel switching of several detectors in Master/Slave or Master/Master possible

- User remote control and management-remote control (optional)
 - Room monitoring
- thePrema P360 KNX UP**
- 3 channels light and 2 channels presence
 - 2 channels light C1, C2 with 2 light measurements and additional lighting channel C3 without brightness factor
 - 2 presence channels can be set individually
 - Adaptable 3 channels light measurement
- thePrema S360 KNX UP**
- 2 channels light and 2 channels presence
 - 2 channels light C1, C2 with 1 light measurement
 - 2 presence channels can be set individually with parallel offset
 - Adaptable 1 channel light measurement

* According to warranty terms and conditions, see www.theben.de/en/guarantee

Product selection

Channels	Colour	Type	Article number
3x light / 2x presence	White	thePrema P360 KNX UP WH	2079000
	Grey	thePrema P360 KNX UP GR	2079001
2x light / 2x presence	White	thePrema S360 KNX UP WH	2079500
	Grey	thePrema S360 KNX UP GR	2079501

Technical data

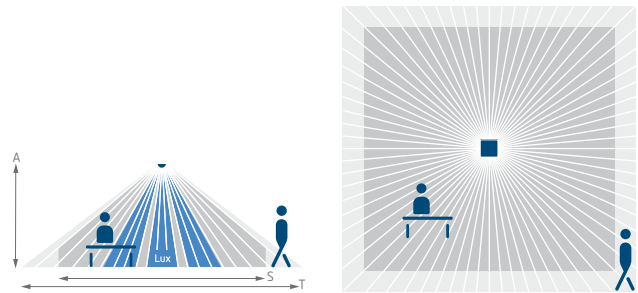
	thePrema P360 KNX UP	thePrema S360 KNX UP
Operating voltage KNX	Bus voltage, approx. 9 mA (13 mA LED on)	Bus voltage, approx. 8 mA (12 mA LED on)
Installation height	2–10 m	2–3,5 m
Setting range brightness	approx. 5–3000 lx/measuring off	
Light switch-off delay	30 s–60 min	
Stand-by dimming value	1–25 % of the lamp output	
Stand-by time	30 s–60 min/inactive/permanently on	

	thePrema P360 KNX UP	thePrema S360 KNX UP
Presence switch-off delay	10 s – 120 min	
Presence switch-on delay	10 s – 30 min / inactive	
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range thePrema P360 KNX (Square)

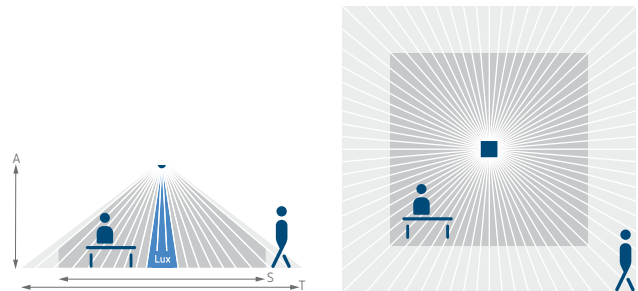
Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m ² 6 m x 6 m ± 0,5 m	20 m ² 4,5 m x 4,5 m
2,5 m	64 m ² 8 m x 8 m ± 0,5 m	36 m ² 6 m x 6 m
3 m	81 m ² 9 m x 9 m ± 1 m	49 m ² 7 m x 7 m
3,5 m	100 m ² 10 m x 10 m ± 1 m	64 m ² 8 m x 8 m
6 m	144 m ² 12 m x 12 m ± 1,5 m	–
10 m	400 m ² 20 m x 20 m ± 2 m	–

With a mounting height of more than 3.5 m walking motions are necessary and the detection areas of several detectors should overlap in the marginal zone. All figures are up to values. The detection range decreases with increasing temperatures.



Detection range thePrema S360 KNX (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4 m x 4 m ± 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m ± 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 8 m ± 1 m	25 m ² 5 m x 5 m
3,5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame 110B WH
↳ Art.No.: 9070918
Details page 337



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

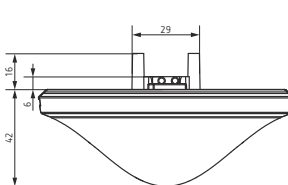
QuickSafe
Details page 338

theSenda B
Details page 341

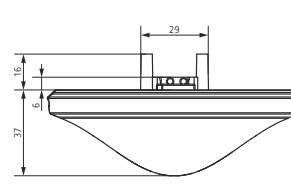
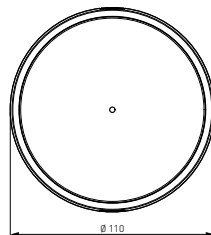
Ceiling installation box 73A
Details page 337

Surface frame 110B GR
Details page 337

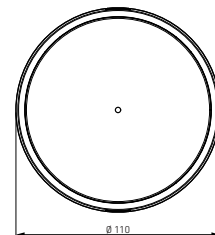
Scale drawings



thePrema P360 KNX



thePrema S360 KNX





PlanoSpot 360 KNX DE WH

Description

PlanoSpot 360 KNX DE WH

- Passive infrared presence detector for ceiling installation
- Flat design, cover frame in white included in delivery
- Cover frames in black or silver available as optional accessories
- Square detection area 360° (up to 64 m²) for reliable and easy planning
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Two differently sized detection zones for greater flexibility. Adjustable via parameters or remote control.
- Manual alignment of the detection area (swivel mechanism)
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- 3 directed light measurements
- 2 light channels C1, C2 with 2 light measurements and additional lighting channel C3 without brightness factor
- Switched or constant light control with 2 independent control systems and standby function (orientation light)
- Switching mode with dimmable lighting
- Fully or semi-automatic
- Brightness switching value or set point value can be set in lux by using parameters, the object or via remote control
- Teach-in of the brightness switching value or the set point value
- Light time delay configurable
- Self-learning time delay can be set using parameters, object or via remote control
- Reduction of time delay when present briefly (short-term presence)
- Manual override by telegram or remote control
- 2 presence channels C4, C5, individually configurable
- Switch-on delay and time delay configurable
- Room monitoring with selective movement detection
- Setting the room correction factor for brightness measurement comparison
- Configurable sensitivity
- Extremely simple setting of the energy-saving ratio with the new «eco plus» function
- Test mode for checking function and detection area
- Scenarios
- Parallel switching of multiple presence detectors (Master/Slave or Master/Master)
- Installation in false ceilings with springs
- Surface mounting on ceilings possible with surface frame (optional)
- User remote control «theSenda S» (optional)
- Management remote control «theSenda B» (optional)
- Installation remote control «theSenda P» (optional)

PlanoSpot 360 KNX S DE WH

As PlanoSpot 360 KNX DE WH, but:

- Without manual alignment of the detection area (swivel mechanism)

Product selection

Swivel mechanism	Colour	Type	Article number
✓	Pure white (similar to RAL 9010)	PlanoSpot 360 KNX DE WH	2039100
–	Pure white (similar to RAL 9010)	PlanoSpot 360 KNX S DE WH	2039300

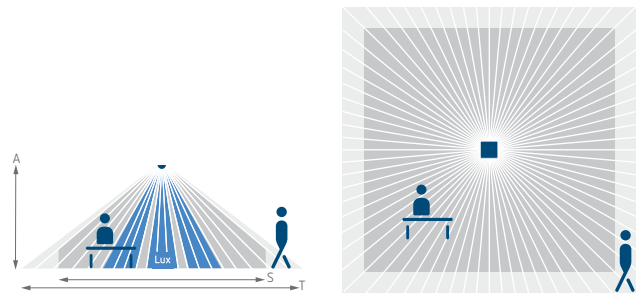
Technical data

	PlanoSpot 360 KNX DE
Operating voltage KNX	Bus voltage, approx. 8 mA (9 mA LED on)
Installation height	2–3,5 m
Setting range brightness	approx. 10–3000 lx/measuring off
Light switch-off delay	30 s–60 min
Stand-by dimming value	1–25 % of the lamp output
Stand-by time	30 s–60 min/on/inactive
Presence switch-off delay	10 s–120 min
Presence switch-on delay	10 s–30 min/inactive
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Detection zone standard		
Mounting height (A)	Sitting (S)	Walking (T)
2 m	9 m ² 3 m x 3 m	20 m ² 4,5 m x 4,5 m ± 0,5 m
2,5 m	16 m ² 4 m x 4 m	36 m ² 6 m x 6 m ± 0,5 m
3 m	20 m ² 4,5 m x 4,5 m	49 m ² 7 m x 7 m ± 1 m
3,5 m	–	64 m ² 8 m x 8 m ± 1 m

Detection zone reduced		
Mounting height (A)	Sitting (S)	Walking (T)
2 m	4 m ² 2 m x 2 m	4,4 m ² 2,1 m x 2,1 m ± 0,5 m
2,5 m	6,3 m ² 2,5 m x 2,5 m	9 m ² 3 m x 3 m ± 0,5 m
3 m	9 m ² 3 m x 3 m	14,4 m ² 3,8 m x 3,8 m ± 1 m
3,5 m	–	22,1 m ² 4,7 m x 4,7 m ± 1 m



Accessories



theSenda B

↳ Art.No.: 9070985
Details page 341



theSenda P

↳ Art.No.: 9070910
Details page 341



theSenda S

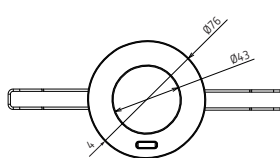
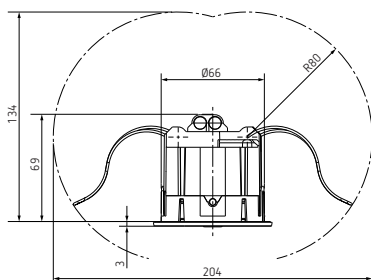
↳ Art.No.: 9070911
Details page 341

Surface frame 75B WH
Details page 337

PlanoCover 76 BK
Details page 337

PlanoCover 76 SR
Details page 337

Scale drawings



Home and building control

KNX, Presence detectors



Description

- Presence detector (PIR)
 - Automatic control of lighting depending on presence and brightness
 - Flat design, cover frame in white included in delivery
 - Cover frames in black or silver available as optional accessories
 - Square detection area allows accurate and simple planning
 - Integrated bus coupling unit
 - 2 channels light for controlling one or two lighting groups
 - Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
 - Switching or constant light control with stand-by function
 - Adjustable sensitivity
 - Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
 - The self-learning switch-off delay time adjusts to occupants' behavior
 - Short presence; Reduced switch-off delay time in case of a short presence
 - Channel presence with switch-off delay and switch-on delay time and send values
 - Function „monitoring“ with reduced sensitivity only to detect walking persons
 - Selected parameters can be configured remotely using the theSenda B remote control. Parameter settings are made via ETS
 - Optional user remote control
 - Test operation to check detection area, installation and brightness settings
 - Parallel switching of several presence detectors (master-slave or master-master) possible
 - Individual covers available on request
- PlanoCentro EWH-A KNX**
- For ceiling installation (false ceilings)
 - With installation for false ceilings and cover
- PlanoCentro UWH-A KNX**
- For flush-mounting (concrete ceiling)
 - With metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover

Product selection

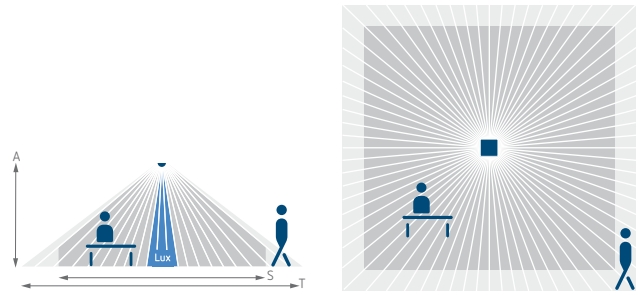
Installation type	Colour	Type	Article number
Ceiling mounting with mounting frame	Pure white (similar to RAL 9010)	PlanoCentro EWH-A KNX	2059102
Ceiling installation (flush-mounting concrete)	Pure white (similar to RAL 9010)	PlanoCentro UWH-A KNX	2059202

Technical data

	PlanoCentro KNX
Operating voltage KNX	Bus voltage, approx. 14 mA (18 mA LED on)
Installation height	2–3,5 m
Setting range brightness	approx. 5–2000 lx/measuring off
Light switch-off delay	30 s–60 min
Stand-by dimming value	5–10 %
Stand-by time	30 s–60 min/on
Presence switch-off delay	10 s–120 min
Presence switch-on delay	10 s–30 min/inactive
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m ² 6 m x 6 m ± 0,5 m	20 m ² 4,5 m x 4,5 m
2,5 m	64 m ² 8 m x 8 m ± 0,5 m	36 m ² 6 m x 6 m
3 m	81 m ² 9 m x 9 m ± 1 m	49 m ² 7 m x 7 m
3,5 m	100 m ² 10 m x 10 m ± 1 m	64 m ² 8 m x 8 m



Accessories



PlanoSets
for PlanoCentro-E
↳ Art.No.: 9070736
Details page 338



theSenda S
↳ Art.No.: 9070911
Details page 341



theSenda B
↳ Art.No.: 9070985
Details page 341

theSenda P
Details page 341

Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
Details page 338

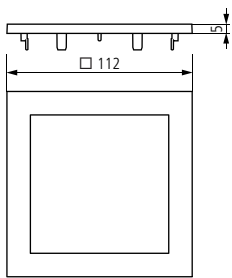
PlanoBox
for PlanoCentro U
Details page 337

QuickSafe
Details page 338

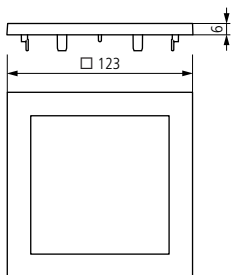
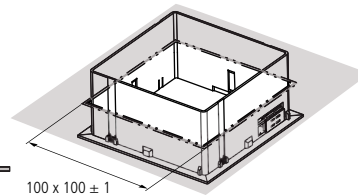
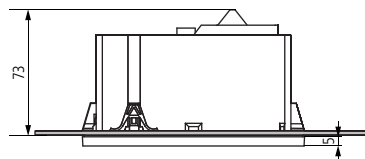
PlanoCover 112 x 112
for PlanoCentro E
Details page 338

PlanoCover 123 x 123
for PlanoCentro U
Details page 338

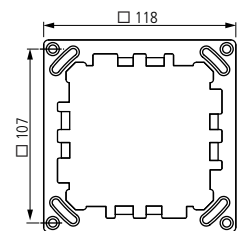
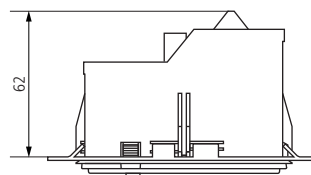
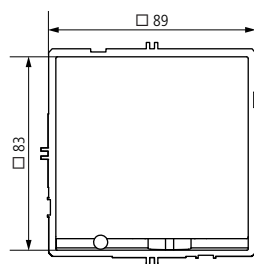
Scale drawings



PlanoCentro E KNX



PlanoCentro U KNX



Home and building control

KNX, Presence detectors



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Cover frame in white included in delivery, cover frames in black or silver available as optional accessories
- Integrated bus coupling unit
- IP 54 for versatile use
- 2 channels light for controlling one or two lighting groups
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Switching or constant light control with stand-by function
- Adjustable sensitivity
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Short presence; Reduced switch-off delay time in case of a short presence
- Channel presence with switch-off delay and switch-on delay time and send values
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Channel brightness (Lux)
- Set brightness level via bus object
- Scene functionality (8-bit scenes)
- Selected parameters can be configured remotely using the theSenda B remote control. Parameter settings are made via ETS
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Parallel switching of several presence detectors (master-slave or master-master) possible
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

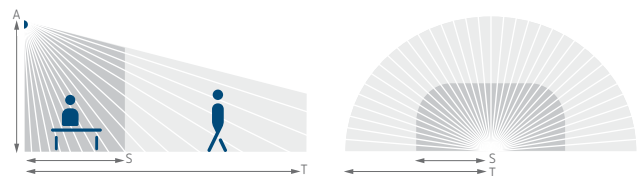
Installation type	Colour	Type	Article number
Wall installation	Pure white (similar to RAL 9010)	PresenceLight 180B-KNX WH	2009050

Technical data

	PresenceLight 180B-KNX
Operating voltage KNX	Bus voltage, approx. 13 mA (17 mA LED on)
Installation height	1,7–2,2 m
Setting range brightness	approx. 5–2000 lx/measuring off
Light switch-off delay	30 s–60 min
Stand-by dimming value	5–10 %
Stand-by time	30 s–60 min / on/inactive
Presence switch-off delay	10 s–120 min
Presence switch-on delay	10 s–30 min/inactive
Ambient temperature	–10 °C ... +50 °C
Type of protection	IP 54

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2,2 m	100 m ² 8 m	25 m ² 7 m x 3,5 m



Accessories



Surface frame PresenceLight
↳ Art.No.: 9070513
Details page 336



theSenda B
↳ Art.No.: 9070985
Details page 341



QuickSafe
↳ Art.No.: 9070531
Details page 338



theSenda P
↳ Art.No.: 9070910
Details page 341



theSenda S
↳ Art.No.: 9070911
Details page 341

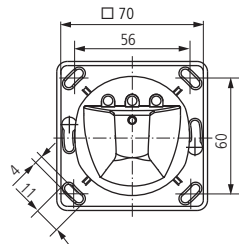
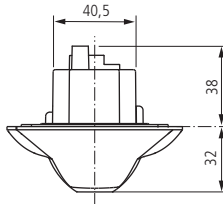
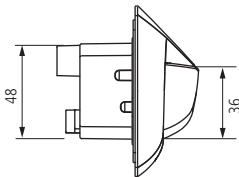
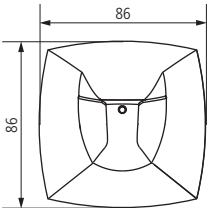
Cover frame PresenceLight 180 SR
Details page 336

Cover frame PresenceLight 180 BK
Details page 336

Surface frame PresenceLight BK
Details page 336

Surface frame PresenceLight SR
Details page 336

Scale drawings



Home and building control

KNX, Motion detectors



Description

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- For integration into KNX building systems
- For outdoor use
- For installation on walls and ceilings
- Integrated temperature sensor
- For larger, commercial outdoor applications such as offices, public buildings, hotels, schools, car parks and warehouses
- Easy to program with KNX ETS software
- Adjustable brightness switching value and switch-off delay
- Sensitivity can be reduced
- Area limit via lens attachment
- Mixed light measurement
- Teach-in of current brightness value possible
- Pulse function
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Controls are place protected
- Spacer and corner angle included

Product selection

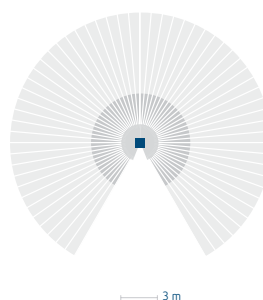
Installation type	Colour	Type	Article number
Wall and ceiling installation	White	theLuxa P300 KNX WH	1019610
	Black	theLuxa P300 KNX BK	1019611

Technical data

	theLuxa P300 KNX
Operating voltage KNX	Bus voltage, < 10 mA
Setting range brightness	1 – 3000 lx
Light switch-off delay	1 s – 60 min
Ambient temperature	– 25 °C ... +45 °C
Protection class	III
Type of protection	IP 55

Detection range

Mounting height	Head on to	Diagonally
2 m	4 m	12 m
2,5 m	5 m	16 m
3 m	5 m	16 m
3,5 m	5 m	16 m
4 m	4 m	12 m



- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under protection
- Mounting height: 2,5 m

Accessories



Corner angle theLuxa P WH
↳ Art.No.: 9070904
Details page 339



Corner angle theLuxa P BK
↳ Art.No.: 9070905
Details page 339



theSenda P
↳ Art.No.: 9070910
Details page 341



Spacer theLuxa P WH
↳ Art.No.: 9070908
Details page 339

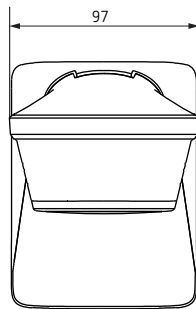
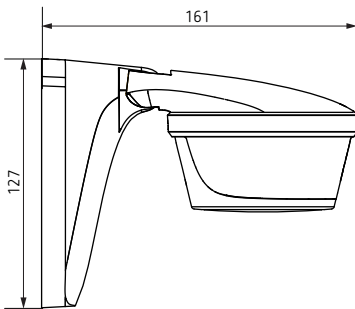


Spacer theLuxa P BK
↳ Art.No.: 9070909
Details page 339



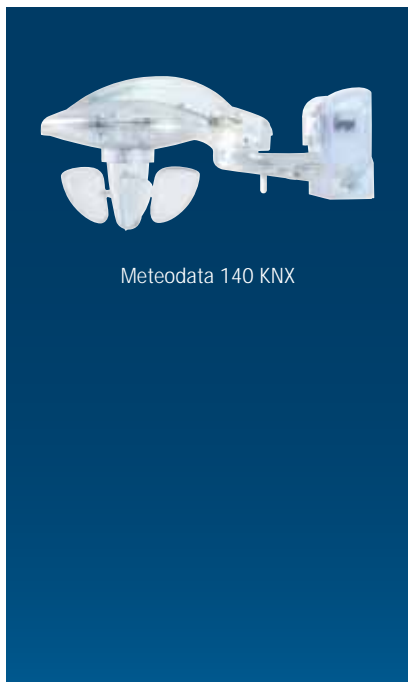
theSenda S
↳ Art.No.: 9070911
Details page 341

Scale drawings



Home and building control

KNX, Weather station, brightness sensor



Description

Meteodata 140 S KNX

- Self-contained outdoor weather station
- For measuring wind, rain, brightness and temperature
- For fully automatic blinds and sun protection control with automatic adjustment of blinds according to position of the sun
- Rain sensor with integrated heating
- The weather station can also be operated without mains supply. The heating of the rain sensor will not function then
- Measurement and evaluation directly on device
- Sun protection for up to eight facades via 3 integrated brightness sensors
- 8 sun protection channels
- 4 additional threshold channels for connection of external KNX sensors
- 6 logic channels
- Display of weather data e.g. with VARIA 826 KNX multi-function display

Meteodata 140 S GPS KNX

- As Meteodata 140 S KNX, but
- Integrated GPS receiver (provides additionally time information)
 - Automatic calculation of elevation and azimuth
 - The weather station can also be operated without mains supply. The GPS module will not function then

Meteodata 140 basic KNX

- As Meteodata 140 S KNX, but:
- Without rain sensor
 - No automatic adjustment of blinds according to position of the sun
 - 3 sun protection channels

Product selection

Detection	GPS module integrated	Operating voltage	Type	Article number
Wind, Rain, Brightness, Temperature	–	110–230 V AC	Meteodata 140 S KNX	1409207
Wind, Brightness, Temperature	–	–	Meteodata 140 basic KNX	1409205
Wind, Rain, Brightness, Temperature, Time	✓	110–230 V AC	Meteodata 140 S GPS KNX	1409208
Wind, Rain, Brightness, Temperature	–	15–34 V DC	Meteodata 140 S 24V KNX	1409201
Wind, Rain, Brightness, Temperature, Time	✓	15–34 V DC	Meteodata 140 S 24V GPS KNX	1409204

Technical data

	Meteodata 140 S GPS KNX	Meteodata 140 S KNX	Meteodata 140 S 24V GPS KNX	Meteodata 140 S 24V KNX	Meteodata 140 basic KNX
Operating voltage	110–230 V AC		15–34 V DC		–
Frequency	50–60 Hz		–		
Operating voltage KNX	Bus voltage, ≤ 10 mA				
Stand-by consumption	< 0,5 W				
Measuring range brightness	1–100000 lx				
Measuring range temperature	–30 °C ... +60 °C				
Measuring range wind speed	2–30 m/s				
Ambient temperature	–20 °C ... +55 °C				
Protection class	II		III		II
Type of protection	IP 44				

Accessories

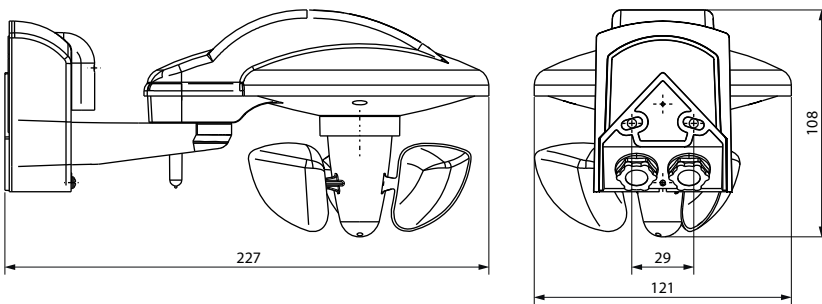


Mast mounting S
↳ Art.No.: 9070928
Details page 345



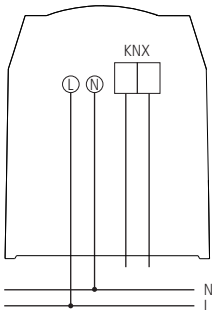
Power unit 24 V DC
for Meteodata 140 KNX
↳ Art.No.: 9079330
Details page 345

Scale drawings



Meteodata 140 KNX

Connection diagrams



Home and building control

KNX, Weather station, brightness sensor



Description

- Weather forecast receiver
- Receives weather data from the HKW via longwave on hours of sunlight, probability of rain, wind speeds and temperatures
- (This service is not available in all European countries. Find out more at www.efr.de/en)
- Weather forecasts for the next 3 days are shown in 6 hour blocks
- In addition, weather scenarios such as „fine“, „cloudy“, „rainy“, among others, and storm warnings are also received
- Data can be visualised purely for information purposes
- By using the data, heating and shade can be controlled with foresight
- Exact time entry in the KNX system thanks to a time signal sent with the weather data
- Provision and transmission of the weather data by HKW is currently guaranteed until 2021-12-31. Any termination of the transmission will be announced on the website, at least 5 years in advance

Product selection

Type	Article number
Meteodata 139 KNX	1399200

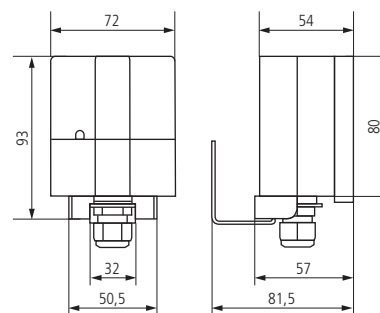
Technical data

Meteodata 139 KNX			
Operating voltage KNX	Bus voltage, ≤12 mA	Protection class	III
Ambient temperature	-20 °C ... +55 °C	Type of protection	IP 54

Accessories

Mast mounting S
Details page 345

Scale drawings



Meteodata 139 KNX



Description

- Light level controller
- External light sensor included in delivery
- For brightness-dependent controlling
- 10 channels
- 4 threshold values channels for connecting external KNX-sensors (e.g. temperature)
- 6 logic channels
- Up to 3 lights sensors can be connected
- Manual operation on device
- 4 keys for setting threshold and switch on/off delay
- DuoFix spring terminals
- Display back light (can be turned off)
- Thresholds can be shown or changed on display
- PIN coding

Product selection

Type	Article number
LUNA 134 KNX	1349200

Technical data

LUNA 134 KNX			
Operating voltage	110–240 V AC	Width	3 modules
Frequency	50–60 Hz	Ambient temperature	-5 °C ... +45 °C
Operating voltage KNX	Bus voltage, ≤10 mA	Ambient temperature sensor	-40 °C ... +70 °C
Stand-by consumption	0,8 W	Protection class	II
Measuring range brightness	1–100000 lx	Type of protection	IP 20
On/off switching delay	0–20 min		

Accessories



Digital surface-mounted light sensor

↳ Art.No.: 9070415

Details page 342



Digital flush-mounted light sensor

↳ Art.No.: 9070456

Details page 342

Home and building control

KNX, Weather station, brightness sensor



Description

- Brightness and temperature sensor
- For brightness and temperature dependent controlling in outdoor areas
- 5 freely configurable channels: 1 sun protection channel and 4 universal channels
- Sun protection channel with automated sun protection especially for blind, awning and shutter applications
- Universal channels allow linking of brightness and temperature
- Brightness range from 1 - 100,000 lux
- Temperature range -20 °C to + 55 °C
- Learning object for brightness threshold

Product selection

Type	Article number
LUNA 131 S KNX	1319201

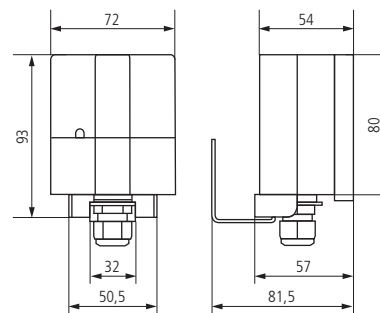
Technical data

LUNA 131 S KNX			
Operating voltage KNX	Bus voltage, ≤ 5 mA	Ambient temperature	-25 °C ... +55 °C
Measuring range brightness	1 - 100000 lx	Type of protection	IP 54
Measuring range temperature	-20 °C ... +55 °C		

Accessories

Mast mounting S
Details page 345

Scale drawings



LUNA 131 S KNX



LUNA 133 KNX

Description

- Brightness sensor
- For brightness dependent controlling in outdoor areas
- Brightness range from 1 - 100,000 lux
- Ideally combinable with the Theben weather stations for individual control of several facades

Product selection

Type	Article number
LUNA 133 KNX	1339200

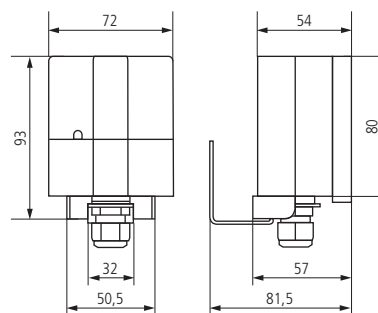
Technical data

LUNA 133 KNX			
Operating voltage KNX	Bus voltage, ≤ 5 mA	Ambient temperature	-25 °C ... +55 °C
Measuring range brightness	1 – 100000 lx	Type of protection	IP 54

Accessories

Mast mounting S
Details page 345

Scale drawings



LUNA 133 KNX



TR 648 top2 RC KNX

TR 648 top2 RC-DCF KNX

Description

Common functions

- Digital time switch with yearly and astronomical time program
- 8 channels
- DuoFix spring terminals for 2 conductors each
- Text-oriented user guidance in display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 8 year power reserve (lithium battery)
- ON-OFF switching times
- Pulse program
- Cycle program
- Extensive yearly clock functions

- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- Switching preselection
- Permanent switching ON/OFF
- Count-down timer
- Integrated hour counter
- Holiday program
- 2 random programs
- Display backlight (can be turned off)
- PIN coding
- Automatic summer/winter time changeover
- Time and date synchronisation of other bus participants

TR 648 top2 RC KNX

- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS

TR 648 top2 RC-DCF KNX

- Time synchronisation via connection of external DCF antenna
- Can be operated without mains supply

Product selection

Type	Article number
TR 648 top2 RC KNX	6489212
TR 648 top2 RC-DCF KNX	6489210

Technical data

	TR 648 top2 RC KNX	TR 648 top2 RC-DCF KNX
Operating voltage KNX	Bus voltage, ≤ 12 mA	
Operating voltage	110–240 V AC	–
Frequency	50–60 Hz	–
Stand-by consumption	0,2 W	–
Width	3 modules	
Number of channels	8	
Number of memory locations	800	
Time accuracy at 25 °C	$\leq \pm 0,5$ s/day (quartz) or DCF77/GPS	$\leq \pm 0,5$ s/day (quartz) or DCF77
Shortest switching times	1 s	
Display	LCD	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	III according to EN 60 730-1

Accessories



Antenna top2 RC-GPS
for TR 648 top2 RC KNX
↳ Art.No.: 9070610
Details page 335



Antenna top2 RC-DCF
↳ Art.No.: 9070410
Details page 335

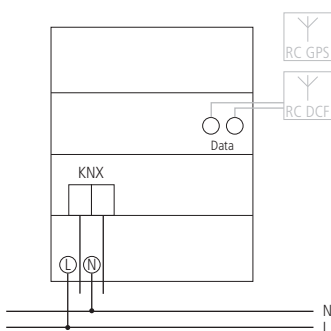


PC set OBELISK top2
↳ Art.No.: 9070409
Details page 335

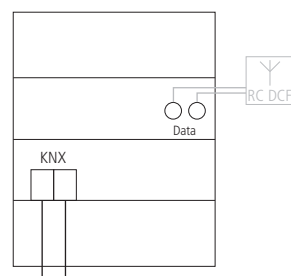


Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 335

Connection diagrams



TR 648 top2 RC KNX



TR 648 top2 RC-DCF KNX

Home and building control

KNX, Time transmitter



ZS 600 DCF KNX

Description

- Time transmitter for hour and date
- Can also be used with DCF77 antenna
- LED for status display DCF reception
- Integrated voltage supply for DCF77 antenna
- Preset time and date (CET or CEST)
- Automatic summer/winter time switchover

Product selection

Type	Article number
ZS 600 DCF KNX	6009200

Technical data

ZS 600 DCF KNX			
Operating voltage KNX	Bus voltage, ≤10 mA	Ambient temperature	-10 °C ... +50 °C
Width	2 modules	Protection class	III according to EN 60 730-1
Power reserve	10 years	Type of protection	IP 20
Time accuracy at 25 °C	≤ ± 1 s/day (quartz) or DCF77 synchronous		

Accessories

Antenna DCF77 KNX

↳ Art.No.: 9070271

Details page 335





Description

- The DALI Gateway KNX serves as an interface between the the DALI and the KNX system
- A maximum of 64 DALI members can be connected to a DALI output
- Individual control of up to 64 ECGs possible
- Up to 16 groups can be switched, dimmed or set to a defined value
- Operation of single battery emergency lamps according to EN 62386-202
- Emergency lighting systems with central battery are also supported
- Support of DALI „Device Type 8“ (DT8) for controlling light color, brightness and color temperature
- Status and error information for a visualization
- Scene module for up to 16 different groups
- Effect module for sequencers
- LC display (2x 12 characters) for menu guidance during start-up and parameter settings
- The DALI start-up takes place via the control elements on the device, via the integrated web server or via the ETS plug-in

Product selection

Type	Article number
DALI-Gateway KNX plus	9070929

Technical data

DALI-Gateway KNX plus			
Operating voltage KNX	Bus voltage, <10 mA	Ambient temperature	-5 °C ... +45 °C
Operating voltage	100 – 240 V AC/DC	Protection class	I
Frequency	50 – 60 Hz	Type of protection	IP 20
Width	4 modules		



KNX-OT-Box S

Description

- The KNT-OT-Box S serves as an interface between the boilers with OpenTherm (bus system in heating and ventilation technology) and the KNX system (building system technology)
- This enables the bidirectional exchange of data between the OpenTherm boiler and the heat distribution via the KNX system (individual room control)
- In combination with the OT-Box (9070712) from the RAMSES 856 top2 OT (8569132) also heating systems without OpenTherm interface can be controlled
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module
- Button for OT-test-program
- The following functions are available with the KNT- OT-box:
 - Customised flow control
 - Weather-compensation flow control
 - Control of domestic hot water
 - Energy optimization of domestic hot water with solar support
 - Legionella protection program
 - Screed drying program

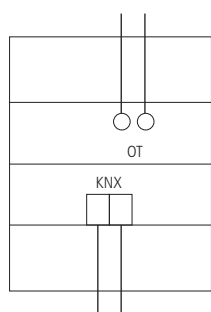
Product selection

Type	Article number
KNX-OT-Box S	8559201

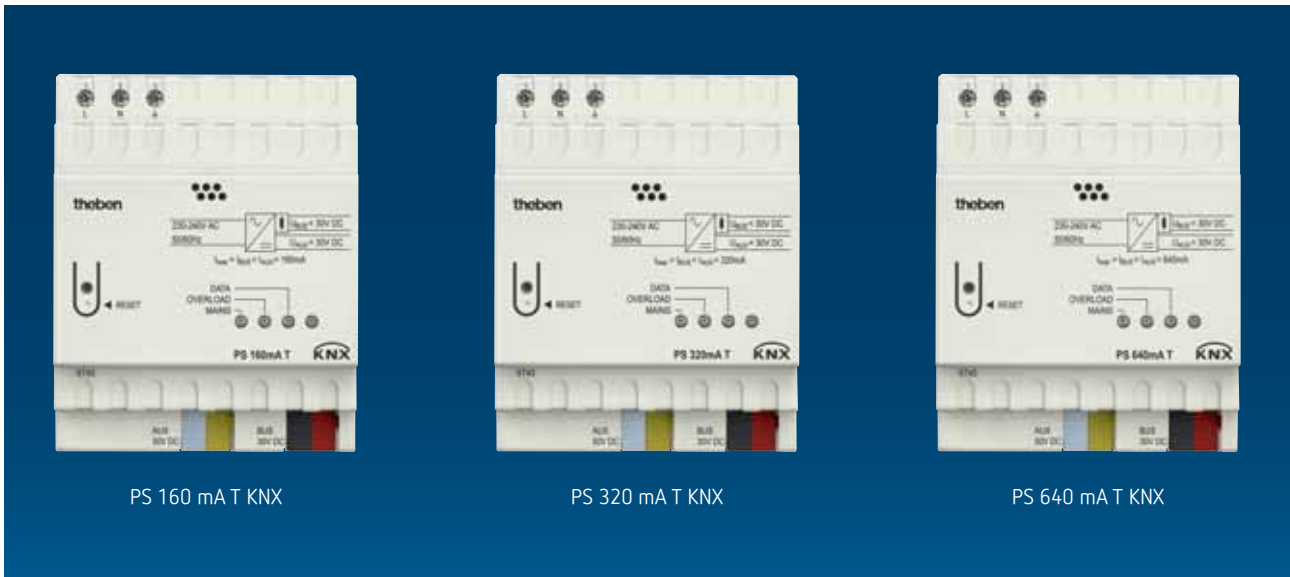
Technical data

KNX-OT-Box S			
Operating voltage KNX	Bus voltage, ≤10 mA	Ambient temperature	+0 °C ... +45 °C
Width	4 modules	Protection class	III
Rated impulse with stand voltage	4 kV	Type of protection	IP 20

Connection diagrams



KNX-OT-Box S



PS 160 mA T KNX

PS 320 mA T KNX

PS 640 mA T KNX

Description

Common functions

- 30 V DC auxiliary supply
- Power-supplying and monitoring of the KNX system voltage
- Reset key for 20 sec. bus reset

- Continuous short-circuit protection

PS 160 mA T KNX

- 160 mA supply voltage
- 320 mA supply voltage

PS 640 mA T KNX

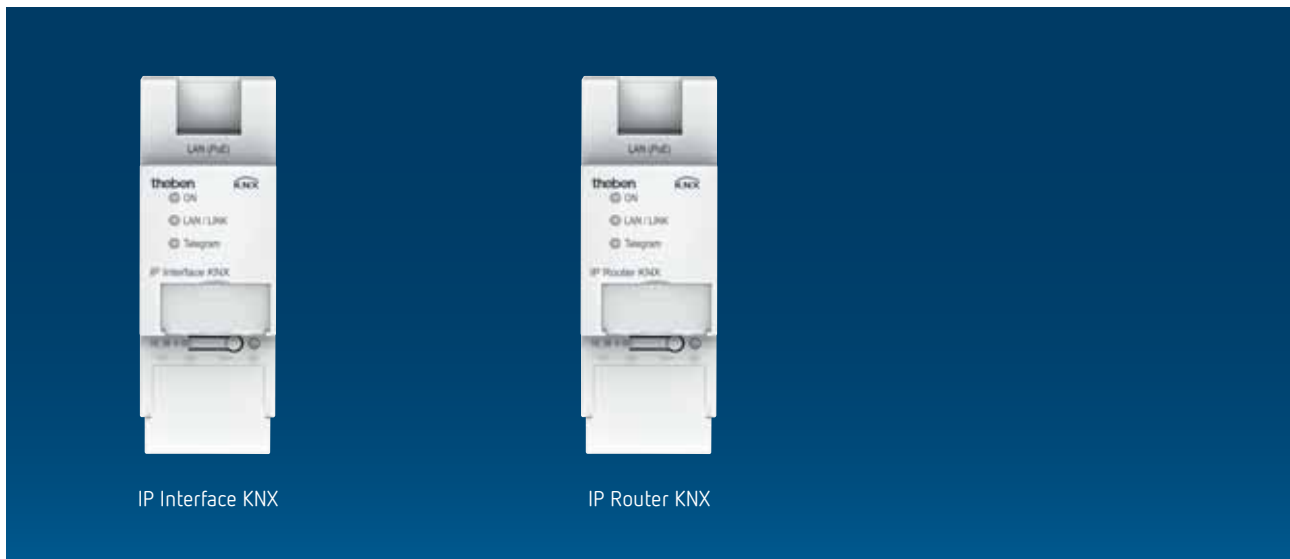
- 640 mA supply voltage

Product selection

Type	Article number
PS 160 mA T KNX	9070956
PS 320 mA T KNX	9070957
PS 640 mA T KNX	9070958

Technical data

	PS 160 mA T KNX	PS 320 mA T KNX	PS 640 mA T KNX
Operating voltage KNX	Bus voltage, ≤ 12 mA		
Operating voltage	230–240 V AC		
Frequency	50–60 Hz		
Stand-by consumption	$\leq 0,8$ W		
Width	4 modules		
KNX output	1 line with integrated throttle drive		
Nominal voltage KNX	30 V DC, ± 2 V, SELV		
Nominal current KNX	160 mA	320 mA	640 mA
Uninterrupted short-circuit current	max.0,5 A	max.0,8 A	max.1,4 A
Mains failure bridging time	min.130 ms		
Ambient temperature	-5 °C ... $+45$ °C		
Protection class	II according to EN 60 730-1		
Type of protection	IP 20		



Description

Common functions

- Firmware update (Theben IP Tool Software)
- Power Supply: 12–30 V DC/PoE - IEEE 802.3af class 1

IP Interface KNX

- Interface IP and KNX

- Tunneling: Up to 5 Tunneling Server

IP Router KNX

- Router/Interface/Line Coupler IP and KNX
- Support of full Filter Table for all main groups 0...31

- Monitoring for KNX bus voltage failure (KNX IP Service)

- Unicast: Up to 10 unicast devices
- Tunneling: Up to 5 Tunneling Server (Visualisation, App...)

Product selection

Type	Article number
IP Interface KNX	9070981
IP Router KNX	9070980

Technical data

	IP Interface KNX	IP Router KNX
Operating voltage KNX	Bus voltage, ≤10 mA	
Operating voltage	12–30 V DC	
Width	2 modules	
Ambient temperature	-5 °C ... +45 °C	
Protection class	II according to EN 60 730-1	
Type of protection	IP 20	



Interface USB KNX

Line coupler S KNX

Description

Interface USB KNX

- USB interface
- For communication between PC and the KNX equipment to be programmed
- USB LED and KNX LED to display data transmission

- Usable from ETS3

Line coupler S KNX

- Line coupler
- For connecting KNX lines or areas
- Galvanic separation of the lines/areas

- Bus terminals for main line and subordinate line
- Telegrams can be filtered (to reduce telegram traffic)
- Can also be used as line amplifier (repeater)

Product selection

Type	Article number
Interface USB KNX	9070397
Line coupler S KNX	9070880

Technical data

	Interface USB KNX	Line coupler S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	
Operating voltage	-	24 V DC
Width	2 modules	
Ambient temperature	-5 °C ... +45 °C	
Protection class	II according to EN 60 730-1	III
Type of protection	IP 20	



OSIRIA 220/230/240 AR KNX

OSIRIA 230 SR KNX, OSIRIA 240 SR KNX

OSIRIA 241 BR KNX, OSIRIA 241 AR KNX

Description

OSIRIA 220 AR KNX, OSIRIA 230 AR KNX, OSIRIA 240 AR KNX

- KNX indoor clock, round, single-sided
- Black bar hour and minute hands, red second hand
- White metallic dial with black arabic numerals
- Impact-resistant plastic housing
- Matte border
- Flat, shock-resistant Plexiglas
- Diameter dial: 250 mm/300 mm/400 mm

OSIRIA 230 SR KNX, OSIRIA 240 SR KNX

- KNX indoor clock, round, single-sided
- Black bar hour and minute hands, red second hand
- White metallic dial with black fine-line numerals
- Impact-resistant plastic housing
- Matte border
- Flat, shock-resistant Plexiglas
- Diameter dial: 300 mm/400 mm

OSIRIA 241 BR KNX, OSIRIA 241 AR KNX

- KNX indoor clock, round, single-sided
- Silver metallic painted metallic housing (RAL 9006 white-aluminium)
- Black bar hour and minute hands, red second hand
- White metallic dial with black DIN bar numerals or arabic numbers
- Curved, shock-resistant Plexiglas
- Diameter dial: 400 mm

Product selection

Dial dimensions	Housing material	Type of numerals	Type	Article number
Ø 250 mm	Plastic housing	Arabic numerals	OSIRIA 220 AR KNX	5009200
Ø 300 mm	Plastic housing	Arabic numerals	OSIRIA 230 AR KNX	5009210
		Fineline numerals	OSIRIA 230 SR KNX	5009211
Ø 400 mm	Plastic housing	Arabic numerals	OSIRIA 240 AR KNX	5009230
		Fineline numerals	OSIRIA 240 SR KNX	5009231
	Silver metallic painted metallic housing	Arabic numerals	OSIRIA 241 AR KNX	5009240
		Bar numerals	OSIRIA 241 BR KNX	5009241



OSIRIA 242 AR KNX, OSIRIA 242 SR KNX

OSIRIA 251 BQ KNX

OSIRIA 232 BQ KNX

Description

OSIRIA 242 AR KNX, OSIRIA 242 SR KNX

- KNX indoor clock, round, double-sided
- With wall or ceiling holder (150 mm)
- White dials
- Black Arabic numerals
- Black bar hour and minute hands, red second hand
- White painted metallic housing
- Shock-resistant plexiglass
- Diameter dial: 400 mm

OSIRIA 251 BQ KNX

- KNX indoor clock, square, single-sided
- Wall clock limited protected against thrown balls e.g. for sports halls, schools, etc.
- White metallic dial with black DIN bar numerals
- Black bar hour and minute hands, red second hand
- Single-faced, robust, white painted metallic housing (RAL 9016) for heavy-duty applications
- Laminated safety glass
- 3-point fastening resistant to being pried out
- Dial: 400 mm x 400 mm

OSIRIA 232 BQ KNX

- KNX indoor clock, square, single-sided, for flush-mounted installation (for OP rooms)
- White metallic dial with black DIN bar numerals
- Black bar hour and minute hands, red second hand
- Stainless steel housing frame flush with tiles or wall V4A for wall installation (flush-mounted)
- Resistant to acids, cleaning agents and disinfectants; in the installed state protected against dust and water in acc. with protection rating IP 54 (DIN 40050)
- 3 mm flat mineral lens
- Dial: 250 x 250 mm

Product selection

Dial dimensions	Housing material	Type of numerals	Type	Article number
Ø 400 mm	White painted metallic housing	Arabic numerals	OSIRIA 242 AR KNX	5009250
		Fineline numerals	OSIRIA 242 SR KNX	5009251
400 mm x 400 mm	White painted metallic housing	Bar numerals	OSIRIA 251 BQ KNX	5009252
250 mm x 250 mm	Rustproof high quality steel housing	Bar numerals	OSIRIA 232 BQ KNX	5009223

Home and building control

KNX, Display units



Description

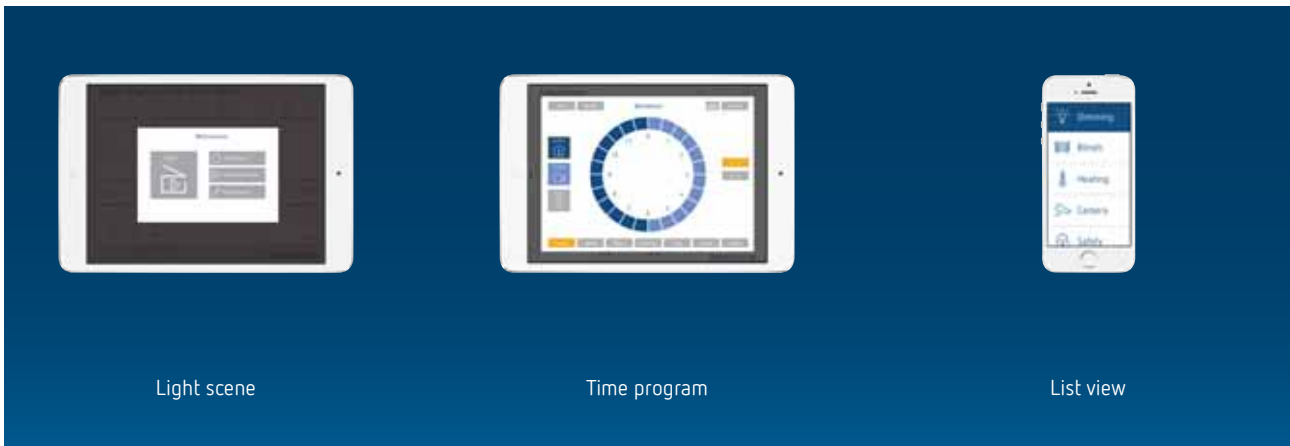
- theSera S110 is a high-performance KNX visualisation solution for lighting, awning and climate control via smartphone and tablet
- The intuitive app user interface is able to control devices, and also:
 - Display status and alarm messages and measured values as text or via pre-defined symbols
 - Show energy consumption in graphic format
 - Mix colours of RGB LEDs using a colour wheel
 - Integrate images from IP cameras
 - Control audio/video devices from almost all leading manufacturers via IR transmitter from IRTans
 - Display current weather data and forecasts from the Internet or via KNX weather stations
 - Program time switch and calendar functions, as well as scenes
- In addition to the functions above, theSera offers a complete range of other functions that run in the background, including:
 - Presence simulation
 - Solar position calculation with sunrise and sunset
 - Logic, multiplexer and filter functions
 - Linear combination
 - Calculation of complex mathematical functions
 - Notification via email and push notifications (iOS only)
 - Load management for automatic shut-down of consumers
- Configuration is via theSera configurator. A theSera S110 miniserver from Theben is required to operate the software. Further information is available from the Theben website at www.theben.de/en

Product selection

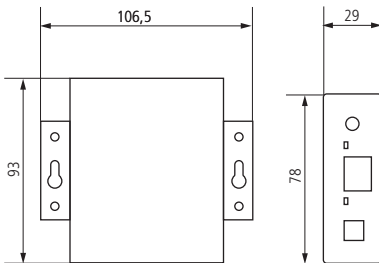
Type	Article number
theSera S110	8254100

Technical data

	theSera S110
Operating voltage	110–240 V AC
Frequency	50–60 Hz
Stand-by consumption	< 1 W
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 20



Scale drawings



More information














App download



Open to new perspectives

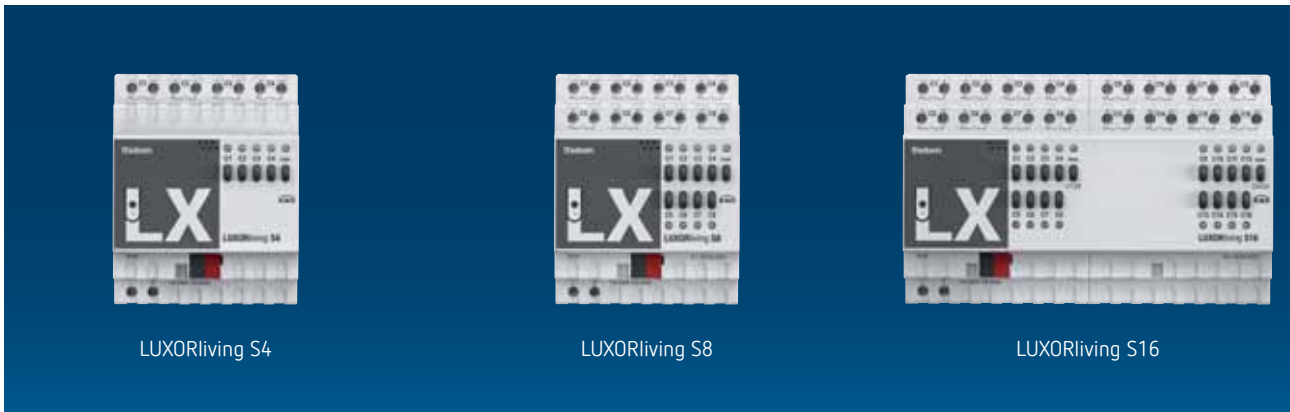
Sometimes you need to change perspective to discover new possibilities. Then you establish that you're not just going further, but upwards. Theben always takes the viewpoint of its customers. First, to develop products that meet the requirements of people who will use them. Second, to be open to new technologies. So we are, as it were, programmed to change perspective systematically. For us it's a central value: openness.



Description	Type	Page	
LUXORliving Actuators			
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Home and building control

Smart Home system LUXORliving, Switching actuators



Smart Home system LUXORliving

- LUXORliving is the simple smart home system from Theben, offering all-round home comfort, whilst avoiding unnecessary waste. Switching lights on and off. Dimming. Regulating heating and controlling blinds.
- That's what it's all about. And the best thing: LUXORliving is so easy to assemble, install and use that you don't need to be a specialised fitter – unless you really want to!
- Anyone who is building or renovating should include LUXORliving in their plans. The smart home system makes houses and flats more comfortable and provides a pleasant working atmosphere in offices and doctor's surgeries too. What's more, it creates optimum conditions for you to use your energy-saving potential.

Highlights of LUXORliving at a glance

 Simple start-up	 Free push button selection	 Certified KNX system	 Flexible BUS wiring
 Safe panic function	 Control centre OFF	 Individual scenarios	 Clever presence simulation

Description Switching actuators

Common functions	LUXORliving S4	LUXORliving S16	
	- Switching actuator LUXORliving	- 4-way switching actuator LUXORliving	- 16-way switching actuator LUXORliving
	- LED switching status display for each channel	LUXORliving S8	
- Manual operation on device	- 8-way switching actuator LUXORliving		
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning			

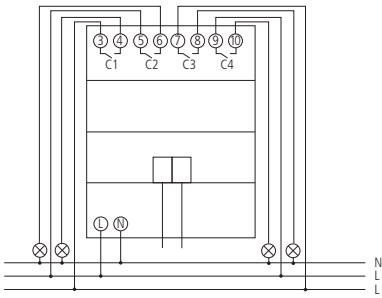
Product selection

Number of channels	Type	Article number
4	LUXORliving S4	4800420
8	LUXORliving S8	4800425
16	LUXORliving S16	4800429

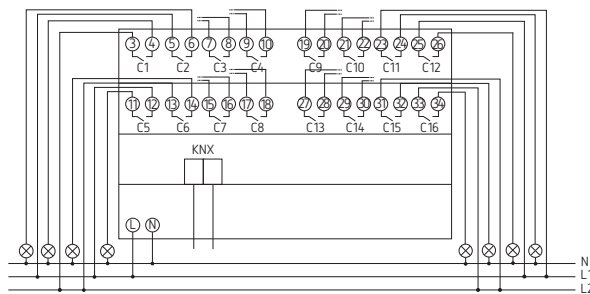
Technical data

	LUXORliving S4	LUXORliving S8	LUXORliving S16
Operating voltage	110–240 V AC		
Frequency	50–60 Hz		
Stand-by consumption	< 0,3 W		
Width	4 modules		8 modules
Type of contact	NO contact, 16 A ($\cos \varphi = 1$), 3 A ($\cos \varphi = 0,6$)		
Inrush current	max. 800 A / 200 μ s		
Resistive load	3680 W		
Incandescent lamp load	2000 W		
Fluorescent lamp load (electronic ballast)	1200 W		
Energy saving lamps	300 W		
LED lamp < 2 W	55 W		
LED lamp > 2 W	600 W		
Unrush current	max. 800 A / 200 μ s		
Operating temperature	-5 °C ... +45 °C		
Type of protection	IP 20		
Protection class	II		

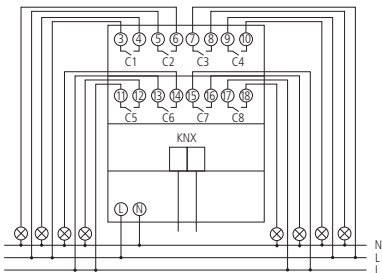
Connection diagrams



LUXORliving S4



LUXORliving S16



LUXORliving S8

Home and building control

Smart Home system LUXORliving, Flush-mounted actuators



Description

LUXORliving D1

- 1-way flush-mounted dimming actuator LUXORliving
- Optimised dimming output for dimmable energy-saving lamps, LEDs, incandescent and halogen lamps, and dimmable transformers
- Easy to adapt to different lamps thanks to automatic load detection
- Adjustable dimming curve for precise and flicker-free dimming
- 2 binary inputs for floating contacts such as buttons, switches, temperature sensor (I2)
- The binary inputs are assigned to the dimming output as standard (function test before programming)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload

LUXORliving J1

- 1-way flush-mounted blind actuator LUXORliving
- For controlling drives for blinds, roller blinds, sun and vision protection devices, skylights, and ventilation flaps
- 2 binary inputs for floating contacts such as buttons, switches, window contact, temperature sensor (I2)
- The binary inputs are assigned to the output as standard (function test before programming)
- Integrated temperature monitoring for increased operating

LUXORliving S1

- 1-way flush-mounted switching actuator LUXORliving
- 1x NO contact & 1x NC contact with common control
- Adjustable features: NC/NO contact, switching, delayed switching, pulse function
- 2 binary inputs for floating contacts such as buttons, switches, temperature sensor (I2)
- The binary inputs are assigned to the switch output as standard (function test before programming)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload

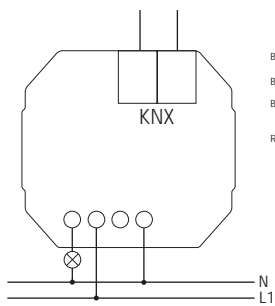
Product selection

Number of channels	Type	Article number
1	LUXORliving D1	4800570
1	LUXORliving J1	4800550
1	LUXORliving S1	4800520

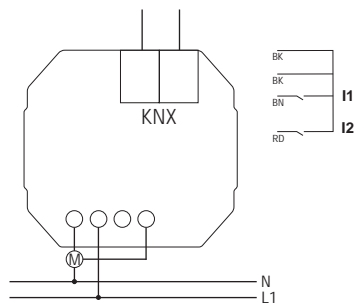
Technical data

	LUXORliving D1	LUXORliving J1	LUXORliving S1
Operating voltage KNX	Bus voltage, ≤ 4 mA		
Type of contact	-	10 A	16 A
Energy saving lamps	-		300 W
LED lamp < 2 W	250 W	-	50 W
LED lamp 2-8 W	250 W	-	600 W
LED lamp > 8 W	250 W	-	600 W
Inrush current	-		max. 740 A / 200 μ s
Ambient temperature	-5 °C ... +45 °C		

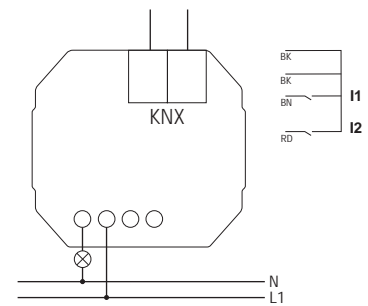
Connection diagrams



LUXORliving D1



LUXORliving J1



LUXORliving S1

Accessories

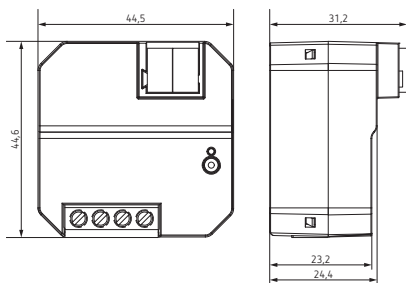
Temperature sensor

Details page 343

Temperature sensor RAMSES IP 65

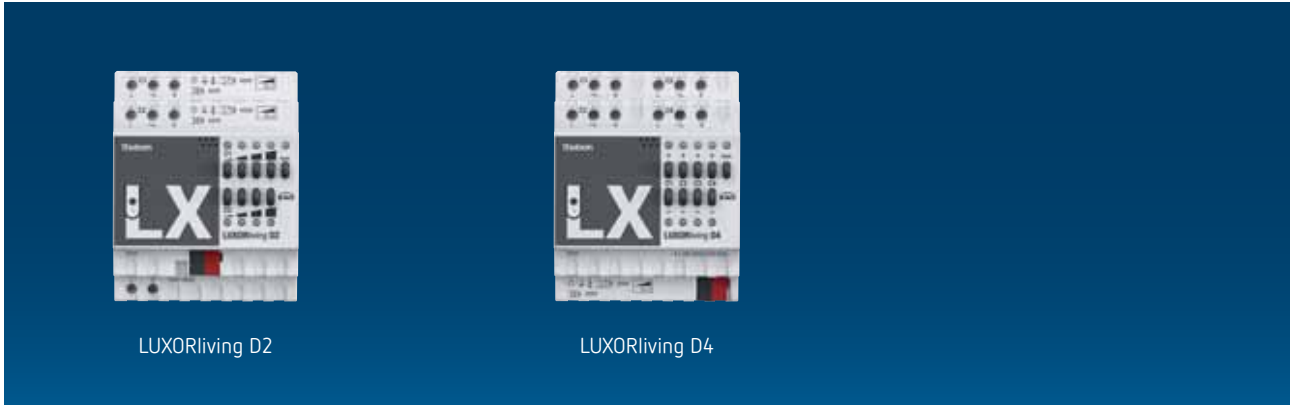
Details page 343

Scale drawings



Home and building control

Smart Home system LUXORliving, Dimming actuators



LUXORliving D2

LUXORliving D4

Description

Common functions

- Universal dimmer actuator LUXORliving
- For dimming dimmable LED, incandescent lamps, LV, HV halogen lamps and energy saving lamps
- Also suitable for dimming of dimmable energy-saving lamps

- LED switching status display for each channel

- Manual operation on device

LUXORliving D2

- 2-way universal dimmer actuator LUXORliving

- Dimming output: 400 W per channel, dimming area 0-100%

LUXORliving D4

- 4-way universal dimmer actuator LUXORliving

- Dimming output: 200 W per channel, dimming area 0-100%

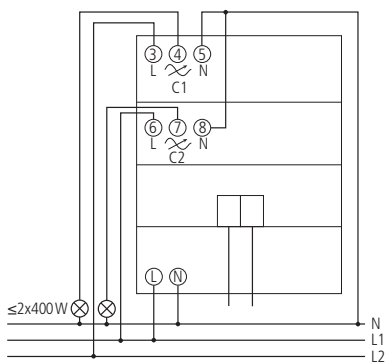
Product selection

Number of channels	Switching capacity per channel	Type	Article number
2	400 W	LUXORliving D2	4800470
4	200 W	LUXORliving D4	4800475

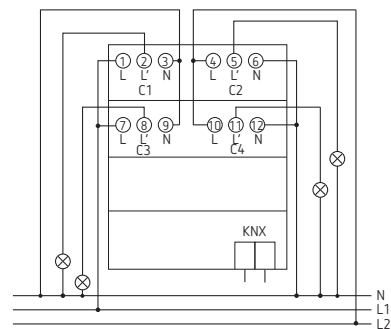
Technical data

	LUXORliving D2	LUXORliving D4
Operating voltage	230 V AC	
Stand-by consumption	0,9 W	< 1 W
Width	4 modules	
Lamp types	Incandescent, low-voltage and high-voltage halogen and dimmable energy saving lamps and LED	
Switching capacity dimmable energy saving lamps per channel	400 W	200 W
Switching capacity dimmable 230 V LED per channel	400 W	200 W
Incandescent/halogen lamp load	400 W	200 W
Type of protection	IP 20	
Protection class	II according to EN 60 669	

Connection diagrams



LUXORliving D2



LUXORliving D4



LUXORliving J4

LUXORliving J8

Description

Common functions

- Blind actuator LUXORliving
- For controlling drives for blinds, shutters, sun and vision protection devices
- Manual operation on device

- LED Up and Down switching status display for each channel

LUXORliving J4

- 4-way blind actuator LUXORliving

LUXORliving J8

- 8-way blind actuator LUXORliving

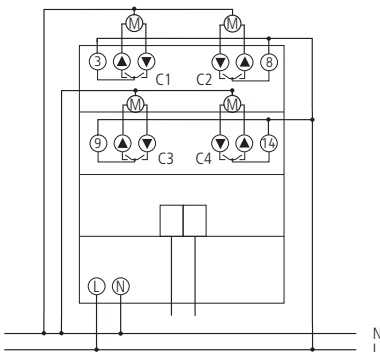
Product selection

Number of channels	Type	Article number
4	LUXORliving J4	4800450
8	LUXORliving J8	4800455

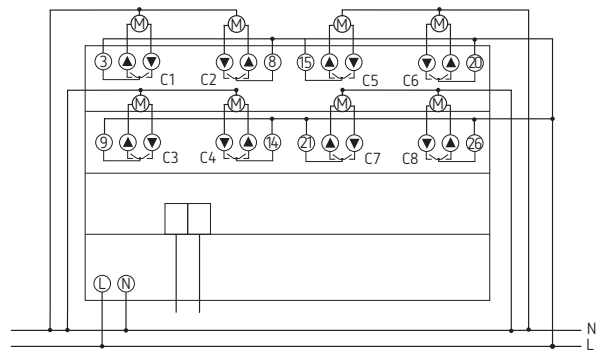
Technical data

	LUXORliving J4	LUXORliving J8
Operating voltage	110–240 V AC	
Stand-by consumption	< 0,3 W	< 0,5 W
Width	4 modules	8 modules
Type of contact	NO contact	
Type of protection	IP 20	
Protection class	II according to EN 60 669	

Connection diagrams



LUXORliving J4



LUXORliving J8

Home and building control

Smart Home system LUXORliving, Binary input



Description

- 6-way binary input LUXORliving
- 6 floating universal and wide-range voltage inputs (10-240 V AC/DC or internally generated auxiliary voltage of approx. 12 V DC)
- Software functions: Switch/push-button, dimming, blinds
- LED switching status display for each channel
- Manual operation on device

Product selection

Number of channels	Type	Article number
6	LUXORliving B6	4800430

Technical data

LUXORliving B6			
Operating voltage	110–240 V AC	Type of protection	IP 20
Stand-by consumption	< 0,3 W	Protection class	II according to EN 60 730-1
Width	4 modules		



Description

Common functions

- Can be installed in flush-mounted sockets with conventional sensors/switches
- Software functions: Switch/push-button, dimming, blinds
- Colour coding of wiring pairs

LUXORliving T2

- 2-way binary input sensor interface LUXORliving
- 4-pole cable connection

LUXORliving T4

- 4-way binary input sensor interface LUXORliving

- 6-pole cable connection

LUXORliving T8

- 8-way binary input sensor interface LUXORliving
- 10-pole cable connection

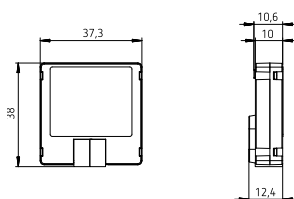
Product selection

Number of channels	Type	Article number
2	LUXORliving T2	4800402
4	LUXORliving T4	4800404
8	LUXORliving T8	4800408

Technical data

	LUXORliving T2	LUXORliving T4	LUXORliving T8
Interface extension max.		30 m	
Length connecting wires		25 cm	
Contact current		0,5 mA	
Type of protection		IP 20	
Protection class		III	

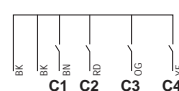
Scale drawings



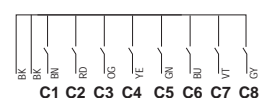
Connection diagrams



LUXORliving T2



LUXORliving T4



LUXORliving T8

Home and building control

Smart Home system LUXORliving, Heating actuator



Description

- 6-way heating actuator LUXORliving
- For controlling 6 thermal actuators
24 V–240 V AC in 2 groups with 3 outputs
and 450 mA each
- Valve protection
- LED switching status display for each
channel
- Manual operation on device

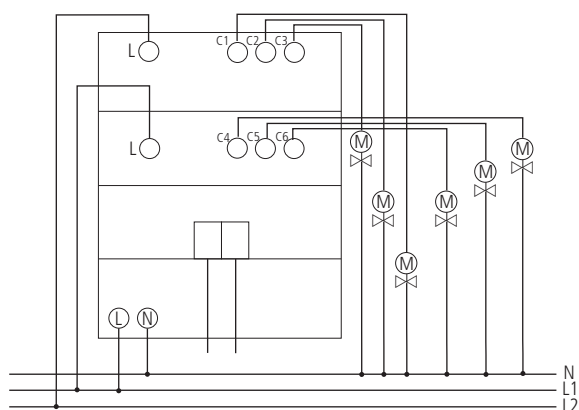
Product selection

Number of channels	Type	Article number
6	LUXORliving H6	4800440

Technical data

LUXORliving H6			
Operating voltage	110–240 V AC	Output	Triac
Stand-by consumption	0,3 W	Type of protection	IP 20
Width	4 modules	Protection class	II according to EN 60 669
Switching output	Not potential-free		

Connection diagrams



LUXORliving H6

Home and building control

Smart Home system LUXORliving, Heating actuator



Description

- LUXORliving heating actuator for controlling thermal actuators
- Option of channel-based actuator control: 24 V DC switching or 0–10 V DC continuous
- Integrated relay for demand-based control of heating circuit pump
- No room thermostat required: each channel has a temperature control
- Can be installed directly in the heating circuit distributor
- Screwless terminal technology
- Integrated power supply for max. 12 thermal actuators
- Continuous or switching actuating value can be selected
- Integrated valve protection - Manual operation on device

Product selection

Number of channels	Type	Article number
6	LUXORliving H6 24V	4800441

Technical data

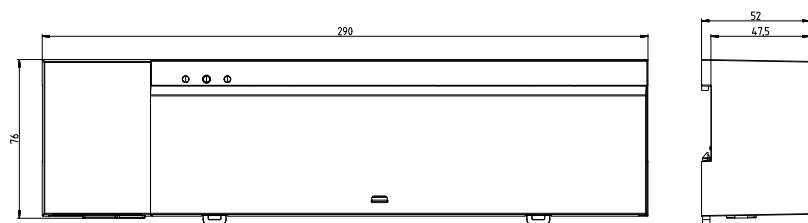
	LUXORliving H6 24V
Operating voltage KNX	Bus voltage, ≤10 mA
Operating voltage	230–240 V AC
Stand-by consumption	< 1 W
Frequency	50–60 Hz
Switching capacity	Valve output: 24 V SELV; 0.4 A peak; 0.12 A permanent or 0–10 V at at least 1250 ohm 24 V output terminal: max. 1.4 A
Switch output	5 A, 240 V AC floating (pump)
Ambient temperature	-5 °C ... +50 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1

Accessories

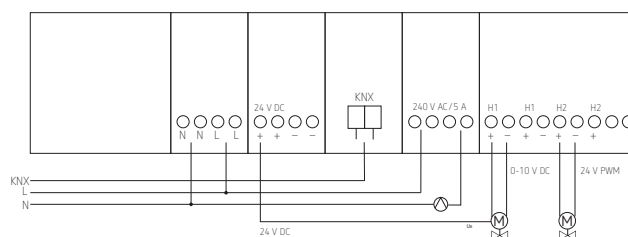


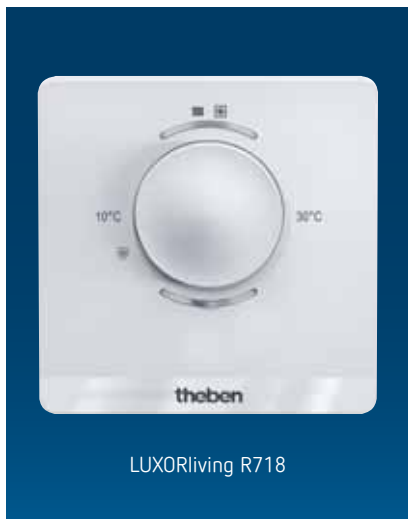
Actuator ALPHA 5 24 V
↳ Art.No.: 9070442
Details page 344

Scale drawings



Connection diagrams





LUXORliving R718

Description

- Individual room thermostat LUXORliving
- Setting range 5 - 30°C
- Applications: heating via radiator or underfloor heating, heating and cooling e.g. radiator or cooling ceiling
- Integrated 4-way binary input sensor interface

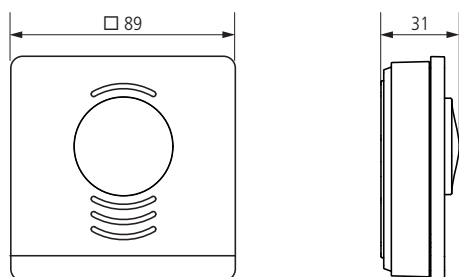
Product selection

Type	Article number
LUXORliving R718	4800480

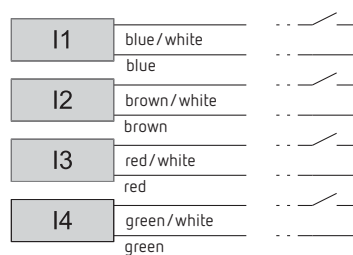
Technical data

LUXORliving R718			
Interface extension max.	5 m	Setting range temperature	+5 °C ... +30 °C
Ambient temperature	+5 °C ... +40 °C	Type of protection	IP 20
Measuring range temperature	-5 °C ... +45 °C	Protection class	III according to EN 60 730-1

Scale drawings



Connection diagrams



Home and building control

Smart Home system LUXORliving, Weather station



Description

- Self contained outdoor weather station LUXORliving
- For measuring wind, rain, brightness and temperature
- Rain sensor with integrated heating
- For fully automatic blinds and sun protection control
- Measurement and evaluation directly on device
- Sun protection for up to 4 facades via 3 integrated brightness sensors
- Display of weather data e.g. with LUXORliving-App „LUXORplay“

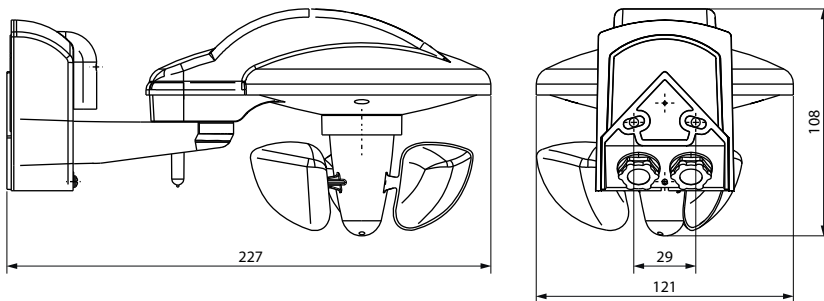
Product selection

Type	Article number
LUXORliving M140	4800490

Technical data

LUXORliving M140			
Operating voltage	110–230 V AC	Measuring range temperature	-30 °C... +60 °C
Frequency	50–60 Hz	Measuring range wind speed	2–30 m/s
Operating voltage KNX	Bus voltage, ≤10 mA	Ambient temperature	-20 °C... +55 °C
Stand-by consumption	< 5,5 W	Protection class	II
Measuring range brightness	100000 lx	Type of protection	IP 44

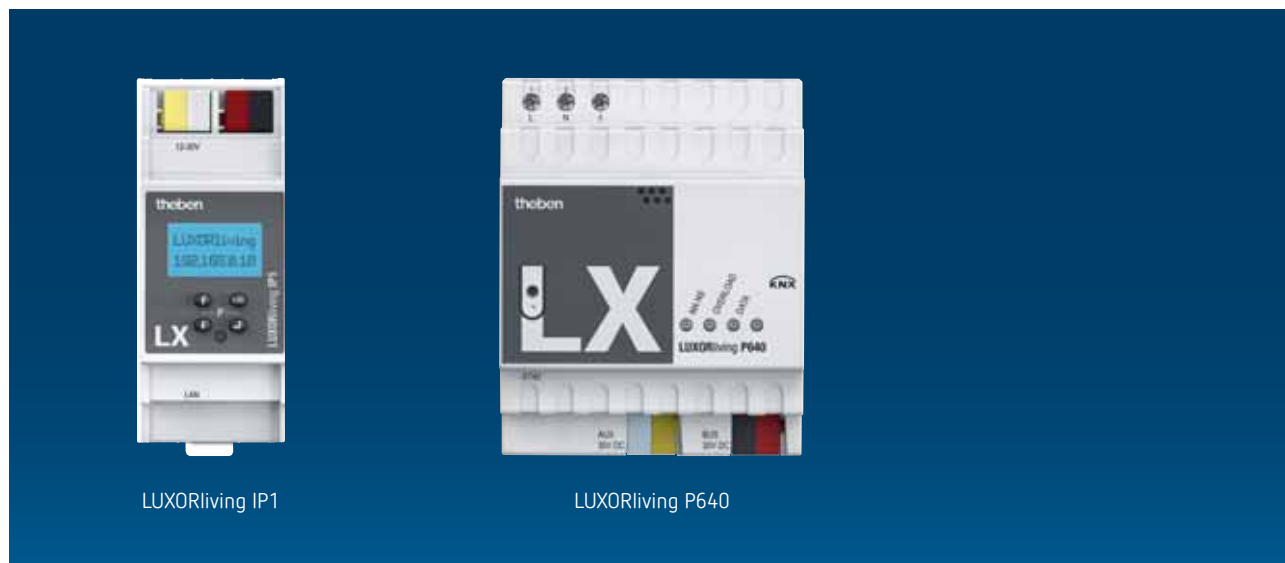
Scale drawings



LUXORliving M140

Home and building control

Smart Home system LUXORliving, System center



LUXORliving IP1

LUXORliving P640

Description

LUXORliving IP1

- System Center LUXORliving
- With Ethernet and bus interface
- For setting-up the LUXORliving system via LUXORplug software
- Storage of project data for visualization via LUXORplay App

LUXORliving P640

- 640 mA supply voltage LUXORliving
- 30 V DC auxiliary supply
- Power-supplying and monitoring of the system voltage

Product selection

Function	Type	Article number
System Center	LUXORliving IP1	4800495
Power supply	LUXORliving P640	4800990

Technische Daten

	LUXORliving IP1	LUXORliving P640
Operating voltage	230 V AC	230–240 V AC
Stand-by consumption	< 1,5 W	< 0,8 W
Width	2 modules	4 modules
KNX output	-	1 line with integrated throttle drive
Mains failure bridging time	-	min.100 ms
Type of protection	IP 20	
Protection class	III	II



Description

LUXORliving set drives

- containing LUXORliving IP1, LUXORliving P640, LUXORliving M140, LUXORliving J8, 2x LUXORliving T4

LUXORliving set lighting

- containing LUXORliving IP1, LUXORliving P640, LUXORliving S8, LUXORliving D4, 2x LUXORliving T4

LUXORliving set drives and lighting

- containing LUXORliving IP1, LUXORliving P640, LUXORliving M140, LUXORliving S8, LUXORliving D4, LUXORliving J8, 4x LUXORliving T4

Product selection

Type	Article number
LUXORliving set drives	4990010
LUXORliving set lighting	4990011
LUXORliving set drives lighting	4990012



LUXOR 400

LUXOR 404

LUXOR 402

Description

Common functions

- Modular expandable system with central functions
- For switching electrical consumers
- Manual switch on device
- LEDs to display
- 2 time functions (staircase light function with switch-off warning, lag function)
- Upgradeable for up to 16 LUXOR modules
- Central ON/OFF, panic function and presence simulation
- LUXOR modules are connected via 2-wire bus cable (COM bus)
- Max. input cable length up to 100 m
- Input separate for connecting RCD
- Universal voltage input: 8–48 V AC/DC (e.g. for intercoms)
- Control for configuring central functions

LUXOR 400

- 4-channel base device for lighting control
- Selector switch for configuring central functions
- Inputs U1 and I4 floating

LUXOR 404

- 4-channel upgrade device for lighting control
- Input I4 potential-free

LUXOR 402

- 2-channel upgrade device for lighting control

Product selection

Type	Article number
LUXOR 400	4000000
LUXOR 404	4040000
LUXOR 402	4020000

Technical data

	LUXOR 400	LUXOR 404	LUXOR 402
Operating voltage	230 V AC		
Frequency	50 Hz		
Width	4 modules		2,5 modules
Installation type	DIN rail		
Stand-by consumption	1,7 W	1,3 W	
Number of channels	4		2
Type of contact	NO contact		
Connecting cable	230 V phase-independent supply cable, max. cable length 100 m		
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m		
Switching capacity	16 A (at 250 V AC, cos φ = 1), 6 A (at 250 V AC, cos φ = 0.6)		
Ambient temperature	-10 °C ... +50 °C		
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		

Accessories



Diode module

↳ Art.No.: 9070367

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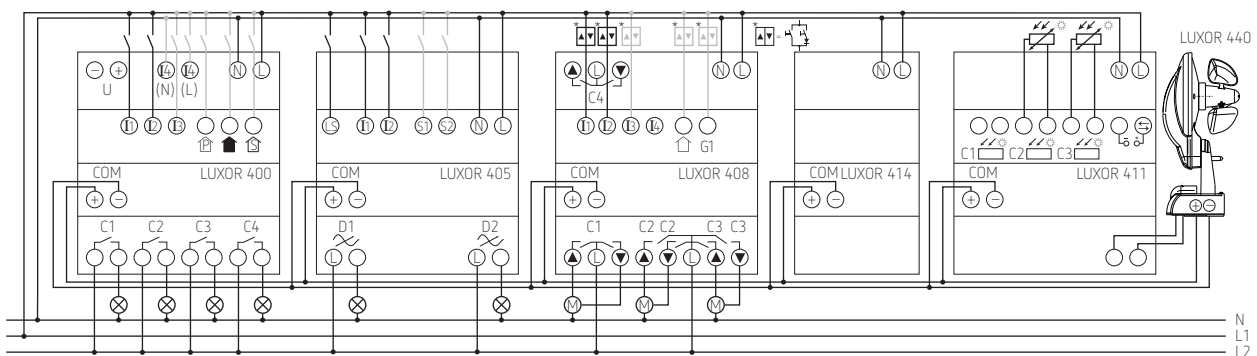


Front panel kit

↳ Art.No.: 9070001

Details page 334

Connection diagrams





LUXOR 405 S

Description

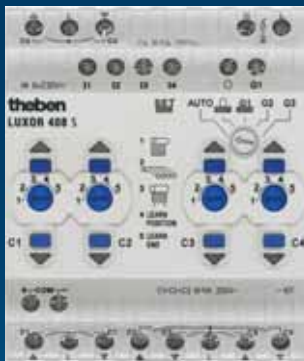
- 2-channel universal dimmer
- For dimming electric consumers such as LED, ESL, incandescent lamps, halogen lamps
- Switching capacity per channel:
 - Incandescent and halogen lamp load: 200 W
 - Compact fluorescent lamps (trailing edge): 200 W
 - LED lamps (trailing edge): 200 W
- Capacity in parallel operation of both channels: 1 x 400 W
- Can also be used without base module
- Manual switch on device
- LEDs to display
- Upgradeable for up to 16 LUXOR modules
- LUXOR modules are connected via 2-wire bus cable (COM bus)
- One additional input per channel for motion detector
- With overcurrent display
- Input for up to 3 light settings
- 4 program options for dimming response
- Central functions: Presence simulation, central OFF, panic function, central ON

Product selection

Type	Article number
LUXOR 405 S	4050100

Technical data

	LUXOR 405
Operating voltage	230 V AC
Frequency	50 Hz
Width	4 modules
Installation type	DIN rail
Stand-by consumption	1,3 W
Number of channels	2
Type of contact	Triacs
Connecting cable	230 V phase-independent supply cable, max. cable length 100 m
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m
Ambient temperature	-5 °C ... +45 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1



LUXOR 408 S



LUXOR 409 S

Description

Common functions

- For controlling shutters, awnings or blinds
- Separate control of 4 shutters with UP/DOWN/STOP
- Manual switch on device
- LEDs to display
- Controllable via standard shutter sensor
- Upgradeable for up to 16 LUXOR modules
- LUXOR modules are connected via 2-wire bus cable (COM bus)

- Setting option for panic function (via LUXOR 400)
- Storable intermediate position and turn for shading and ventilation
- 2 diode modules (9070367) supplied in delivery

LUXOR 408 S

- 4-channel roller shutter base module
- Central UP/DOWN, panic 1 group

- With three group functions (individual, group and central control)
- Expandable via channel upgrade modules, time and sensor module and weather station

LUXOR 409 S

- 4-channel shutter upgrade module

Product selection

Type	Article number
LUXOR 408 S	4080100
LUXOR 409 S	4090100

Technical data

	LUXOR 408 S	LUXOR 409 S
Operating voltage	230 V AC	
Frequency	50 Hz	
Width	4 modules	
Installation type	DIN rail	
Stand-by consumption	1,3 W	
Number of channels	4	
Type of contact	NO contact	
Connecting cable	230 V phase-independent supply cable, max. cable length 100 m	
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m	
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$)	
Channel Functions	Shutter, blinds and awning control	
Ambient temperature	-10 °C ... +50 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Diode module

↳ Art.No.: 9070367

Details page 342



LUXOR 411

LUXOR 440

Description

LUXOR 411

- Sensor module
- For controlling awnings, shutters and blinds in combination with LUXOR 440, LUXOR 408 S and/or LUXOR 409 S and integrated light sensors
- Setting threshold values on device
- LEDs to display
- Max. input cable length of sensor line is 100 m
- LUXOR modules are connected via 2-wire bus cable (COM bus)

LUXOR 440

- Weather sensor
- For controlling awnings, shutters and blinds depending on rain, wind velocity, temperature and brightness in combination with sensor module LUXOR 411, LUXOR 408 S and/or LUXOR 409 S
- Optional connection of up to two additional light sensors for additional facades

Product selection

Type	Article number
LUXOR 411	4110000
LUXOR 440	4400000

Technical data

	LUXOR 411	LUXOR 440
Operating voltage	230 V AC	COM-Bus
Frequency	50 Hz	–
Width	4 modules	–
Stand-by consumption	1,1 W	–
Installation type	DIN rail	Wall installation or mast bracket
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m	
Setting range twilight value	1 – 100 lx	
Setting range sun protection	1000 – 100000 lx	
Measuring range wind speed	2 – 20 m/s	
Measuring range temperature	0 °C ... +60 °C	–30 °C ... +60 °C
Ambient temperature	–10 °C ... +50 °C	–20 °C ... +55 °C
Type of protection	IP 20	IP 44
Protection class	II according to EN 60 730-1	

Accessories

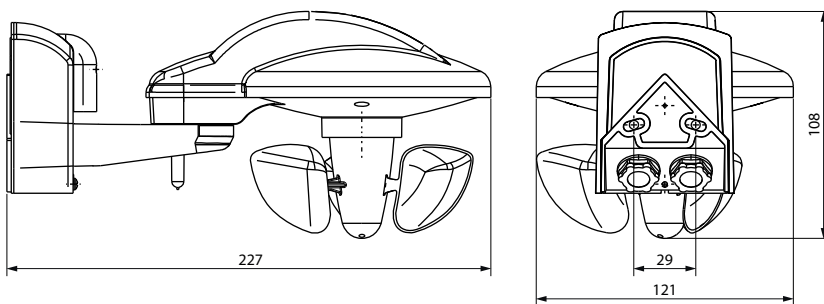


Surface-mounted light sensor
for LUXOR 411
↳ Art.No.: 9070008
Details page 342



Mast mounting S
for LUXOR 440
↳ Art.No.: 9070928
Details page 345

Scale drawings



Home and building control

Living comfort control, Multifunction display



Description

- Central display and control unit for the LUXOR system
- Time, weekday, date as well as central and automatic functions are displayed
- Current weather conditions are displayed as well as min/max values
- Display with back-lighting
- Favourite sites can be selected from 6 pages
- 8 channel time switch
- Heating temperature reduction in combination with a RAMSES room thermostat
- Manual switching on the device for central and group functions as well as manual and automatic mode
- Daily and weekly programs
- Astronomical program (dependent on sunrise and sunset)
- Freely programmable switching times as well as pre-programmed astronomical switching times
- Offset setting ± 120 min
- Easy location input via city list
- Individual link of time switch channels with the outputs
- Time controlled positioning of drives (LUXOR 408 S/409 S) as well as transmission of dimming values (LUXOR 405) as percentage values
- Blocking times for suppression of brightness or twilight signals from sensor module (LUXOR 411)
- Astronomical blocking times for time shifts for moving shutters/awnings up and down
- Automatic changeover summer/winter time
- PIN code
- Installation in flush-mounted socket

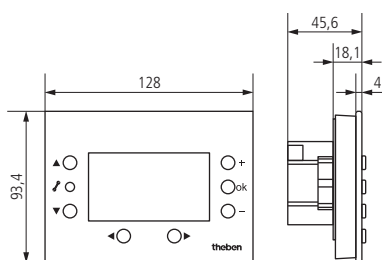
Product selection

Type	Article number
LUXOR 426	4260000

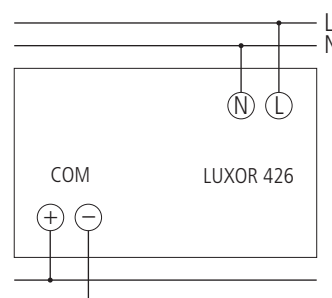
Technical data

	LUXOR 426
Operating voltage	230 V AC
Frequency	50 Hz
Installation type	Wall installation or on flush-mounted socket
Stand-by consumption	1,1 W
Number of channels	8
Connection for COM	EIB / KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m
Number of memory locations	350
Program	Weekly program
Ambient temperature	$-5\text{ }^{\circ}\text{C} \dots +45\text{ }^{\circ}\text{C}$
Type of protection	IP 20
Protection class	II according to EN 60 335

Scale drawings



Connection diagrams





Description

- Set for shutter and blind controlling
- 8 drives can be manually or automatically controlled according to time program or sunrise or sunset
- Blocking times for time shifts for moving shutters/awnings up and down in the early morning
- Additional comfortable central functions
- Suitable for shutter and blind 8 drives, 8 drives and 8 time channels with weekly program with astronomical function
- Consisting of: Box, 1 LUXOR 408 S, 1 LUXOR 409 S, 1 LUXOR 414










Product selection

Type	Article number
LUXOR Set 5	4990005



Meet people on an equal footing

Theben is present in more than 60 countries throughout the world. We are successfully active in numerous markets. It's not just our persuasive product portfolio that accounts for that. What is decisive is the attitude of people who meet one another on an equal footing and agree about challenges that must be overcome — by solutions that offer a concrete benefit. This openness to markets and people we call open-mindedness.

	Number of inputs	Number of outputs	Operating voltage	Type	Page
Controller					
	6	4	100–240 V AC	PHARAO-II 10 (AC)	330
			24 V DC	PHARAO-II 11 (DC)	330
	8	6	100–240 V AC	PHARAO-II 14 (AC)	330
			24 V DC	PHARAO-II 15 (DC)	330
	15	9	100–240 V AC	PHARAO-II 24 (AC)	330
			24 V DC	PHARAO-II 25 (DC)	330
	–	4	220–240 V AC	PHARAO-II extension 4AR (AC)	330
		–	24 V DC	LUNA 131 DDC	332
	1	1	100–240 V AC	SUD 228 II	332

Home and building control

Controller, Controller



Description

Common functions

- Small control unit for house automation and industry
- Programming directly on device via eight buttons without interface cable
- Display back light with operator guidance in clear text
- Input and output switching status display
- Lifespan of relay contacts is 100,000 switching cycles at nominal current
- Assignment of programmed functions on front keys
- Internal EEPROM memory for max. 200 function blocks (5,000 bytes)
- Optional plug-in EEPROM for program transfer or dual programming of internal and plugged-in EEPROM
- 3-level password protection
- Realtime year clock with 1,000 switching times
- Graphical programming software for Windows 95/98/NT/2000/ME/XP with detailed online Help documentation
- Remote control/remote monitoring possible via modem/GSM modem
- Transmission of SMS, email or fax

PHARAO-II 10 (AC)

- Small control unit for house automation and industry
- Operating voltage 100–240 V AC
- 6 digital inputs, e.g. for keys, brightness and temperature switches
- 4 relay outputs

PHARAO-II 11 (DC)

- Operating voltage 24 V DC
- 6 digital/analogue inputs
- 4 relay outputs

PHARAO-II 14 (AC)

- Operating voltage 100–240 V AC
- 8 digital inputs, e.g. for keys, brightness and temperature switches
- 6 relay outputs

PHARAO-II 15 (DC)

- Operating voltage 24 V DC
- 8 digital/analogue inputs
- 6 relay outputs

PHARAO-II 24 (AC)

- Operating voltage 100–240 V AC
- 15 digital inputs, e.g. for keys, brightness and temperature switches
- 9 relay outputs

PHARAO-II 25 (DC)

- Operating voltage 24 V DC
- 15 inputs, including 8 analogue/digital options
- 9 relay outputs

PHARAO-II extension 4AR (AC)

- 4 channel relay output extension
- For PHARAO-II 14 (AC), PHARAO-II 24 (AC)

Product selection

Number of inputs	Number of outputs	Operating voltage	Type	Article number
6	4	100–240 V AC	PHARAO-II 10 (AC)	5750210
		24 V DC	PHARAO-II 11 (DC)	5759211
8	6	100–240 V AC	PHARAO-II 14 (AC)	5750014
		24 V DC	PHARAO-II 15 (DC)	5759015
15	9	100–240 V AC	PHARAO-II 24 (AC)	5750024
		24 V DC	PHARAO-II 25 (DC)	5759025
-	4	220–240 V AC	PHARAO-II extension 4AR (AC)	5759102

Technical data

	PHARAO-II 10 (AC)	PHARAO-II 11 (DC)	PHARAO-II 14 (AC)	PHARAO-II 15 (DC)	PHARAO-II 24 (AC)	PHARAO-II 25 (DC)	PHARAO-II extension 4AR (AC)
Operating voltage	100–240 V AC	24 V DC	100–240 V AC	24 V DC	100–240 V AC	24 V DC	220–240 V AC
Frequency	50–60 Hz	–	50–60 Hz	–	50–60 Hz	–	50–60 Hz
Stand-by consumption	1,2 W	0,4 W	1,3 W	0,4 W	1,3 W	0,4 W	–
Width	4 modules		7 modules				–
Installation type	DIN rail						Encajable
Type of contact	NO contact						
Switching capacity	8 A (at 250 V AC, $\cos \phi = 1$), 373 VA (at 250 V AC, inductive load)				4 x 8 A (250 V AC, $\cos \phi = 1$), inductive load max. 373 VA, 5 x 2 A (250 V AC, $\cos \phi = 1$), inductive load max. 93 VA		2 A (at 250 V AC, $\cos \phi = 1$)
Power reserve	20 days						–
Time accuracy at 25 °C	$\leq \pm 5$ s/day (quartz)						–
Input frequency	5 Hz	20 Hz					–
Ambient temperature	-25 °C ... +55 °C						–
Type of protection	IP 20						–
Protection class	II according to EN 60 730-1						–

Accessories



Power unit 24 V DC
↳ Art.No.: 9079330
Details page 345

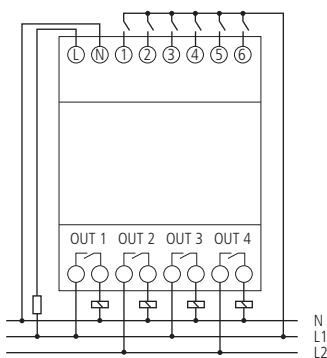


Memory module PHARAO-II
↳ Art.No.: 9070328
Details page 345

GSM cable PHARAO-II
Details page 345

Programming cable PHARAO
Details page 345

Connection diagrams



PHARAO-II 10 (AC)



LUNA 131 DDC

SUD 228 II

Description

LUNA 131 DDC

- Combination sensor with analogue output signal
- Can be used for brightness and temperature measurement
- Each of the two measurement outputs represents a 0-10 V analogue output signal
- The sensor can be connected directly to the analogue inputs of the PHARAO devices (24 V DC)
- Controls and regulators can be programmed with the signal converter, range compare and Schmitt trigger function modules
- External 24 V DC power unit required

SUD 228 II

- Charging switch for electric storage heaters
- Adjustable charging time and backward control
- If the ripple control receiver or the tariff time switch have been released for night-time off-peak tariff, the device starts the charging program for storage heating
- Charging time can be set from 0–9 hours
- Onscreen display of charging time which is repeated every 24 hours
- Backward control stops charging process at the end of off-peak period
- Manual switch can be connected for daytime charging

Product selection

Type	Article number
LUNA 131 DDC	1319700
SUD 228 II	2280577

Technical data

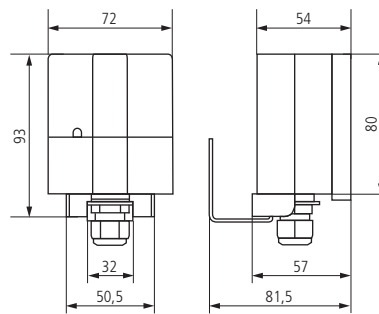
	LUNA 131 DDC	SUD 228 II
Operating voltage	24 V DC	100–240 V AC
Frequency	–	50–60 Hz
Stand-by consumption	–	1,2 W
Width	–	4 modules
Installation type	Surface-mounted	DIN rail
Type of contact	–	NO contact
Switching capacity	–	8 A (at 250 V AC, $\cos \phi = 1$)
Measuring range brightness	10–50000 lx	–
Measuring range temperature	-30 °C ... +70 °C	–
Ambient temperature	-30 °C ... +70 °C	+0 °C ... +55 °C
Type of protection	IP 54	IP 20
Protection class	–	II according to EN 60 730-1

Accessories



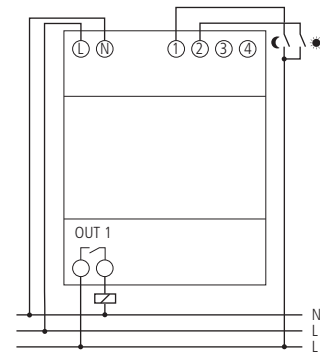
Power unit 24 V DC
↳ Art.No.: 9079330
Details page 345

Scale drawings



LUNA 131 DDC

Connection diagrams



SUD 228 II









Accessories

	Description	Suitable for	Type	Article number
	Wall mounting kit 17,5 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 1 module	Wall mounting kit 17,5 mm	9070065
	Wall mounting kit 35 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 2 modules	Wall mounting kit 35 mm	9070064
	Wall mounting kit 52,5 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 3 modules	Wall mounting kit 52,5 mm	9070050
	Wall mounting kit 70 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 4 modules	Wall mounting kit 70 mm	9070049
	Terminal cover 52,5 mm - Terminal box cover plate for assembly, sealable	- SUL 188 g - SUL 188 hw	Terminal cover 52,5 mm	9070061
	Front panel kit - The front panel installation set is suitable for Theben distributor installation devices of 17,5 to 107,5 mm width - Walls from 1 to 5 mm thick	- All DIN rail installation devices	Front panel kit	9070001
	Snap-on mounting 72 x 72 - Quick fastening for 35 mm DIN-rail	- All devices for front panel/wall installation	Snap-on mounting 72 x 72	9070071
	Multiple contact strip - Multiple contact strip for soldering to PCBs	- TR 684 top2	Multiple contact strip	9075141
	Light sensor theRolla - Light sensor for time switch	- theRolla P032	Light sensor theRolla	9070926








	Description	Suitable for	Type	Article number
	<p>PC set OBELISK top2/3</p> <ul style="list-style-type: none"> - Switching programs created on the PC by means of the convenient OBELISK top2/3 software can be transferred via USB interface to the OBELISK top2 memory card and from the card to the time switch and vice versa. Thus no PC or laptop is required on-site. Programming and the program printout can be done comfortably from the desk - For Windows XP/Vista/7/8/10 (32/64 Bit) - Consisting of: Memory card, USB plug adapter, software - Updates of existing OBELISK top2 software are available as free downloads at www.theben.de 	<ul style="list-style-type: none"> - TR top2 - TR top3 - LUNA top2 - SELEKTA top2 - SELEKTA top3 - TR top2 KNX 	PC set OBELISK top2	9070409
	<p>Bluetooth OBELISK top3</p> <ul style="list-style-type: none"> - Bluetooth low-energy dongle for the transfer of switching programs and direct commands from the app to the time switch - Maximum manipulation security, Time switch programs can only be transferred from the app to the time switch when the Bluetooth OBELISK top3 is plugged into the time switch - Low consumption on standby compared with permanently installed Bluetooth components 	<ul style="list-style-type: none"> - TR top3 - SELEKTA top3 	Bluetooth OBELISK top3	9070130
	<p>Memory card OBELISK top2</p> <ul style="list-style-type: none"> - Individual memory card 	<ul style="list-style-type: none"> - TR top2 - LUNA top2 - SELEKTA top2 - TR top2 KNX 	Memory card OBELISK top2	9070404
	<p>Antenna DCF77 KNX</p> <ul style="list-style-type: none"> - Radio control via DCF antenna with KNX time switches: To ensure good reception, do not install the antenna in cellars or on distribution boxes. Connection is made via separate 2-wire, unshielded high-voltage power cable (max. 100 m), up to 10 Theben top2 RC devices can be connected. Polarity, short-circuit and interruption of the antenna circuit are each visually displayed to help with installation. 	<ul style="list-style-type: none"> - ZS 600 DCF KNX 	Antenna DCF77 KNX	9070271
	<p>Antenna top2 RC-DCF</p> <ul style="list-style-type: none"> - Radio control via DCF antenna with top2 RC devices: To ensure good reception, do not install the antenna in cellars or on distribution boxes. Connection is made via separate 2-wire, unshielded high-voltage power cable (max. 100 m), up to 10 Theben top2 RC devices can be connected. Polarity, short-circuit and interruption of the antenna circuit are each visually displayed to help with installation. 	<ul style="list-style-type: none"> - TR top2 RC - TR top3 RC - LUNA top2 RC - SELEKTA top2 RC - TR top2 KNX 	Antenna top2 RC-DCF	9070410
	<p>Antenna top2 RC-GPS</p> <ul style="list-style-type: none"> - Worldwide time synchronisation and positioning via receiving GPS satellite signal - The antenna is connected by a 2 wire cable (max. 100 m) to Theben top2 RC devices (up to 5 devices can be connected depending on device type) - A top2 GPS power unit (item number 907 0 892) is also required when connecting to TR 611 top2 RC, LUNA 121 top2 RC, LUNA 122 top2 RC or SELEKTA 171 top2 RC devices - No additional power unit is required when connecting to TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC devices or several devices to one antenna - Positioning is only possible when connecting to TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC and SELEKTA 171 top2 RC devices - Can not be used with TR 611 top2 RC 24 V and SELEKTA 171 top2 RC 24V 	<ul style="list-style-type: none"> - TR top2 RC - TR top3 RC - LUNA top2 RC - SELEKTA top2 RC - TR top2 KNX 	Antenna top2 RC-GPS	9070610
	<p>Power unit top2 GPS</p> <ul style="list-style-type: none"> - Required when connecting the antenna top2 RC-GPS to an individual TR 611 top2 RC, LUNA 121 top2 RC, LUNA 122 top2 RC or SELEKTA 171 top2 RC device (No additional power unit is required when connecting to a minimum of 2 devices) - Operating voltage: 230 V AC - Width: 2 modules 	<ul style="list-style-type: none"> - TR top2 RC - TR top3 RC - LUNA top2 RC - SELEKTA top2 RC 	Power unit top2 GPS	9070892

Accessories

	Description	Suitable for	Type	Article number
	Cover 55 x 55 for BZ - Cover for hour counter	- BZ 142-1	Cover 55 x 55 for BZ	9070041
	Cover 72 x 72 for BZ - Cover for hour counter	- BZ 142-1	Cover 72 x 72 for BZ	9070074
	Front kit BZ 142-3 - Terminal box cover plate for hour counter	- BZ 142-3	Front kit BZ 142-3	9070075
	Surface frame PresenceLight - Presence detector surface frame	- PresenceLight 180 - PresenceLight 360	Surface frame PresenceLight (white)	9070513
			Surface frame PresenceLight BK (black)	9070634
			Surface frame PresenceLight SR (silver)	9070635
	Cover frame PresenceLight 360 - Cover frame for presence detector PresenceLight 360	- PresenceLight 360	Cover frame PresenceLight 360 WH (white)	9070510
			Cover frame PresenceLight 360 BK (black)	9070632
			Cover frame PresenceLight 360 SR (silver)	9070631
	Cover frame PresenceLight 180 - Cover frame for presence detector PresenceLight 180	- PresenceLight 180	Cover frame PresenceLight 180 WH (white)	9070629
			Cover frame PresenceLight 180 BK (black)	9070628
			Cover frame PresenceLight 180 SR (silver)	9070627
	Surface frame compact - Presence detector surface frame	- compact office - compact passage - compact passimo	Surface frame compact (white)	9070514
			Surface frame compact BK (black)	9070637
			Surface frame compact SR (silver)	9070638

	Description	Suitable for	Type	Article number
	Surface frame 110A - Presence detector surface frame	- thePrema - theRonda P - theMova P - thePassa	Surface frame 110A WH (white)	9070912
			Surface frame 110A GR (grey)	9070913
	Surface frame 110B - Presence detector surface frame	- thePrema KNX	Surface frame 110B WH (white)	9070918
			Surface frame 110B GR (grey)	9070919
	Ceiling installation box 73A - Ceiling installation unit, ensures strain relief and contact protection at the same time. The installation diameter is 72 mm (drill diameter 73 mm)	- thePrema - theRonda P - theMova P - thePassa	Ceiling installation box 73A	9070917
	Masking clip - For limiting the detection area	- theRonda P - theMova P - thePassa	Masking clip	9070921
	Surface frame 75B - Presence detector surface frame	- PlanoSpot	Surface frame 75B WH (white)	9070976
	Cover frame PlanoCover - Cover frame for presence detector PlanoSpot - Diameter 76 mm	- PlanoSpot	PlanoCover 76 WH (white)	9070976
			PlanoCover 76 BK (black)	9070977
			PlanoCover 76 SR (silver)	9070978
	PlanoBox 1WH - Presence detector surface frame - Dimensions: 100 x 123 x 123 mm	- PlanoCentro U	PlanoBox 1WH (white)	9070731
			PlanoBox 1BK (black)	9070732
			PlanoBox 1SR (silver)	9070733
	PlanoSet RQ - Mounting set consisting of round flush-mounting box PlanoFix E, white matching square cover PlanoCover and assembly parts - Easy and fast mounting in false-ceilings - Cut-out can be easily realized with a standard drill bit diameter 127 mm (5 inches) - The following installation and alignment of the presence detector PlanoCentro is implemented very easily and quickly - Frame PlanoCover: 142 x 142 mm	- PlanoCentro E	PlanoSet RQ EWH (white)	9070736
			PlanoSet RQ EBK (black)	9070737
			PlanoSet RQ ESR (silver)	9070738

Accessories

	Description	Suitable for	Type	Article number
	PlanoSet RR As PlanoSet RQ, but: - Round cover PlanoCover - Frame PlanoCover: Ø 172 mm	- PlanoCentro E	PlanoSet RR EWH (white)	9070740
			PlanoSet RR EBK (black)	9070741
			PlanoSet RR ESR (silver)	9070742
	Cover frame PlanoCover E - Cover frame for presence detector PlanoCentro E - Dimensions 112 x 112 mm	- PlanoCentro E	PlanoCover EWH-112x112 (white)	9070677
			PlanoCover EBK-112x112 (black)	9070678
			PlanoCover ESR-112x112 (silver)	9070679
	Cover frame PlanoCover U - Cover frame for presence detector PlanoCentro U - Dimensions 123 x 123 mm	- PlanoCentro U	PlanoCover UWH-123x123 (white)	9070680
			PlanoCover UBK-123x123 (black)	9070681
			PlanoCover USR-123x123 (silver)	9070682
	Junction casing, 115x115x100 mm - Agro/Kaiser flush-mounted junction box/connection box 9908.01	- PlanoCentro U	Junction casing, 115 x 115 x 100 mm	9070689
	QuickSafe - QuickSafe safety cover - Secure protection against mechanical damage - Robust and solid design - Particularly impact resistant - 6 screws, 3 rawplugs and three spacers - Protection class IK07	- All ThebenHTS presence detectors	QuickSafe	9070531
	RC filter - Suppression filter for presence and motion detectors	- All presence and motion detectors	RC filter	9070523
	Corner angle theLuxa E BK - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxa E180	Corner angle theLuxa E BK	9070975
	Corner angle theLuxa E WH - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxa E180	Corner angle theLuxa E WH	9070974

	Description	Suitable for	Type	Article number
	Spacer theLuxe S BK - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLuxe S150 - the LuxaS180 - theLuxe S360	Spacer theLuxe S BK	9070907
	Spacer theLuxe S WH - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLuxe S150 - the LuxaS180 - theLuxe S360	Spacer theLuxe S WH	9070906
	Spacer theLuxe P BK - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLuxe P220 - theLuxe P300 - theLuxe P300 KNX	Spacer theLuxe P BK	9070909
	Spacer theLuxe P WH - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLuxe P220 - theLuxe P300 - theLuxe P300 KNX	Spacer theLuxe P WH	9070908
	Corner angle theLuxe S BK - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxe S150 - theLuxe S180 - theLuxe S360	Corner angle theLuxe S BK	9070903
	Corner angle theLuxe S WH - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxe S150 - theLuxe S180 - theLuxe S360	Corner angle theLuxe S WH	9070902
	Corner angle theLuxe P BK - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxe P220 - theLuxe P300 - theLuxe P300 KNX	Corner angle theLuxe P BK	9070905
	Corner angle theLuxe P WH - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxe P220 - theLuxe P300 - theLuxe P300 KNX	Corner angle theLuxe P WH	9070904





Accessories

	Description	Suitable for	Type	Article number
	Corner angle 10 AL - For corner installation of motion detectors - Wall installation, external corner installation	- theLeda P - theLeda D	Corner 10 AL	9070970
	Corner angle 10 BK - For corner installation of motion detectors - Wall installation, external corner installation	- theLeda S - theLuxe R	Corner angle 10 BK	9070987
	Corner angle 10 WH - For corner installation of motion detectors - Wall installation, external corner installation	- theLeda S - theLuxe R	Corner angle 10 WH	9070969
	Spacer 10 AL - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLeda P - theLeda D	Spacer 10 AL	9070972
	Spacer 10 BK - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLeda S - theLuxe R	Spacer 10 BK	9070988
	Spacer 10 WH - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLeda S - theLuxe R	Spacer 10 WH	9070971
	Surface frame LUXA 103-100 - Motion detector surface frame	- LUXA 103-100 U - LUXA 103-100 UA	Surface frame LUXA 103-100 U	9070986
	Surface frame LUXA 103-200 - Motion detector surface frame	- LUXA 103-200	Surface frame LUXA 103-200	9070504
	Motion module theLeda B WH - theLeda B motion detector module - 180° detection angle at 12 m range - Additional light switch output - Sensor can turned horizontally by ± 90° and downwards/backwards by 90° - Protection rating IP 55	- theLeda B	Motion module theLeda B WH	9070760
	Motion module theLeda B BK - theLeda B motion detector module - 180° detection angle at 12 m range - Additional light switch output - Sensor can turned horizontally by ± 90° and downwards/backwards by 90° - Protection rating IP 55	- theLeda B	Motion module theLeda B BK	9070761
	Light module theLeda B WH - theLeda B light sensor module - Duty cycle range: 2, 4, 6, 8 hours, on / permanent on at night - Switch-on brightness can be set from 2–200 lux - Additional light switch output - Protection rating IP 55	- theLeda B	Light module theLeda B WH	9070762

	Description	Suitable for	Type	Article number
	Light module theLeda B BK - theLeda B light sensor module - Duty cycle range: 2, 4, 6, 8 hours, on / permanent on at night - Switch-on brightness can be set from 2 – 200 lux - Additional light switch output - Protection rating IP 55	- theLeda B	Light module theLeda B BK	9070763
	Swivelling holder theLeda EC WH - Optional swivelling holder for theLeda EC - Additional adjustability to the L/R by 40° - Stainless-steel retaining bracket and screws - Plastic made from hard-wearing polycarbonate - Quick, easy and safe to install with wing nut and locking function	- theLeda EC	Swivelling holder theLeda EC WH	9070758
	Swivelling holder theLeda EC BK - Optional swivelling holder for theLeda EC - Additional adjustability to the L/R by 40° - Stainless-steel retaining bracket and screws - Plastic made from hard-wearing polycarbonate - Quick, easy and safe to install with wing nut and locking function	- theLeda EC	Swivelling holder theLeda EC BK	9070759
	Spike theLeda D - Spike for ground mounting of the LED bollard light theLeda D B - Length 405 mm	- theLeda D B	Spike theLeda D	9070765
	theSenda B - Remote control for communication of theSenda Plug App with the detectors - Functions remote control theSenda B: - Universally applicable remote control for many indoor and outdoor detectors - Integrated lux meter - Easy comparison of brightness measurement with theSenda Plug App - Flexible infrared communication with the detector and via Bluetooth with the smartphone - Wide range of functions: Switching and dimming for three light channels, two scenes, customizable buttons - Features theSenda Plug App: - Universal app free of charge for iOS and Android smartphones - All detectors are pre-installed and automatically updated - Automatic detector search via filter function or via stored parameter sets - Parameter sets can be saved on a customer-specific basis, stored in parameter libraries and created and read externally	- thePrema - theRonda - theLuxa P - theMova - theLeda P - PlanoCentro - compact office DALI - PresenceLight KNX - PlanoSpot - thePassa	theSenda B	9070985
	theSenda P - Service remote control - ON/OFF - Teach-in function for teaching in the current brightness value - Predefined brightness values and switch-on times - Impulse, reset and test function	- thePrema - theRonda - theLuxa P - theMova - theLeda P - PlanoCentro - compact office DALI - PresenceLight KNX - PlanoSpot - thePassa	theSenda P	9070910
	theSenda S - User remote control - ON/OFF - Automatic - Presence simulation - Twilight switch - Call up of light scenes	- thePrema - theRonda - theLuxa P - theMova - theLeda P - PlanoCentro - compact office DALI - PresenceLight KNX - PlanoSpot - thePassa	theSenda S	9070911





Accessories

	Description	Suitable for	Type	Article number
	Adapter plate LUNA star - The adapter plate simplifies the replacement of faulty twilight switches from Eberle, ESYLUX, Legrand, Grässlin, Hager, Merten, Senmatic, Theben etc. As the plate has standard fixing holes, no further holes need to be drilled in the facade, 2 installation screws included.	- LUNA 126 star - LUNA 127 star - LUNA 128 star - LUNA 129 star-time	Adapter plate LUNA star	9070486
	Surface-mounted light sensor plus - Sensor rotatable - With mounting bracket and screw terminals - Protection class IP 55 - Dimensions: 95 x 48 x 45 mm	- LUNA 108 plus	Surface-mounted light sensor plus	9070991
	Flush-mounted light sensor plus - Spring terminals - Protection class IP 66	- LUNA 108 plus	Flush-mounted light sensor plus	9070990
	Analogue flush-mounted light sensor - Connecting cable 1.5 m - Protection class IP 65	- LUNA 110 - LUNA 120 top2	Analogue flush-mounted light sensor	9070011
	Analogue surface-mounted light sensor - Sensor rotatable - With mounting bracket and screw terminals - Protection class IP 55 - Dimensions: 95 x 48 x 45 mm	- LUNA 110 - LUNA 120 top2	Analogue surface-mounted light sensor	9070416
	Digital flush-mounted light sensor - Spring terminals - Protection class IP 66	- LUNA 111 top2 - LUNA 112 top2 - LUNA 121 top2 RC - LUNA 122 top2 RC - LUNA 134 KNX	Digital flush-mounted light sensor	9070456
	Digital surface-mounted light sensor - Sensor rotatable - With mounting bracket and screw terminals - Protection class IP 55 - Dimensions: 95 x 48 x 45 mm	- LUNA 111 top2 - LUNA 112 top2 - LUNA 121 top2 RC - LUNA 122 top2 RC - LUNA 134 KNX	Digital surface-mounted light sensor	9070415
	Surface-mounted light sensor - Sensor rotatable - With mounting bracket and Screw terminals - Protection class IP 54 - Dimensions: 116 x 27 x 61 mm	- LUXOR 411	Surface-mounted light sensor	9070008
	Diode module - Required for special functions (group/central function) with LUXOR - DIMAX: Light scenes, two button operation - 2 modules supplied in delivery	- LUXOR 400 - LUXOR 402 - LUXOR 404 - LUXOR 405 - LUXOR 408 S - LUXOR 409 S - DIMAX 534 plus - DIMAX 542/544 plus	Diode module	9070367

	Description	Suitable for	Type	Article number
	Adapter RAMSES 72x/78x - Wallpaper/wall cover plate for replacement of RAMSES 3...devices with new clock thermostats, e.g. RAMSES 722	- RAMSES 722 - RAMSES 722 S - RAMSES 782 - RAMSES 782 S - RAMSES 784 - RAMSES 784 S - RAMSES 721 - RAMSES 725	Adapter RAMSES 72x/78x	9070245
	Socket RAMSES - Plug-in socket for installing the RAMSES HF clock thermostat on the wall	- RAMSES 813 top2 Set A/ Set S/Set 1 - RAMSES 833 top2 Set 1/2	Socket RAMSES	9070605
	Adapter plate RAMSES 70x - Adapter plate for flush-mounted socket 79 x 79 mm	- RAMSES 701-709	Adapter plate RAMSES 70x	9070480
	Adapter plate RAMSES 714 - Adapter plate for flush-mounted socket 79 x 79 mm	- SOTHIS 715 - RAMSES 714 - RAMSES 714 A - RAMSES 714 A/FH	Adapter plate RAMSES 714	9070212
	External temperature sensor 1 - External temperature sensor	- RAMSES 366/1 top2 - RAMSES 718 S/P KNX - RAMSES 713 FC KNX - CHEOPS control KNX - AMUN 716 S KNX	External temperature sensor 1	9070191
	External temperature sensor 2 - With temperature adjustment of ± 3 K	- RAMSES 366/1 top2	External temperature sensor 2	9070192
	Temperature sensor RAMSES IP 65 - External room temperature sensor - Protection class IP 65	- RAMSES 831 top2 - RAMSES 832 top2 - RAMSES 833 top2 - RAMSES 833 top2 Sets - RAMSES 816 top2 OT - RAMSES 856 top2 OT - AMUN 716 S KNX - RAMSES 718 S/P KNX	Temperature sensor RAMSES IP 65	9070459
	Temperature sensor - Temperature sensor for laying in floor - Type of protection IP 65	- RAMSES 831 top2 - RAMSES 832 top2 - RAMSES 833 top2 Sets - RAMSES 712 KNX - FCA 1 KNX - AMUN 716 S KNX - RAMSES 718 S/P KNX	Temperature sensor	9070321
	OT-Box Standard - For expansion of the RAMSES 856 top2 OT system	- RAMSES 856 top2 OT	OT-Box Standard	9070712

Accessories

	Description	Suitable for	Type	Article number
	Flow temperature sensor RAMSES - Also required for applications with 2 feed sensors	- RAMSES 816 top2 OT - RAMSES 856 top2 OT	Flow temperature sensor RAMSES	9070371
	Outside temperature sensor RAMSES - Type of protection IP 65	- RAMSES 816 top2 OT	Outside temperature sensor	9070463
	Plunge sensor RAMSES - Additionally required for applications with domestic water control or boiler plunge sensor	- RAMSES 816 top2 OT - RAMSES 856 top2 OT	Plunge sensor RAMSES	9070379
	Actuator ALPHA 5 230 V - Actuator for radiators, heating circuit distributors or individual heating circuits - Operating voltage 230 V AC - For opening and closing of valves in the fields of heating, ventilation and air conditioning - The actuator control is by a room thermostat with two-point output or pulse-width-modulation - Inrush current max. 250 mA for max. 2 min., Operating current 75 mA - „First open function“ for easy installation and heating start-up - Plug-in installation on valve adapter to suit the most common valve bottoms and heating circuit distributors - Normally closed (Valve is closed when the operating voltage is cut) - Simple snap-on mounting to a valve adapter - Valve adapter not included in delivery - 100 % protection against damaging drives through leaking valves - Function and adjustment checking - Installation vertical, horizontal and up-side-down possible - Up-side-down position may reduce product life through special circumstances (e.g. contaminated water) - Protection against disassembly by means of removable SaveGuard - Guaranteed overvoltage protection	- All clock thermostats - RAMSES 701 – 709 - RAMSES 741 – 748 - RAMSES 714 - RAMSES 751 - HMG 6 T - HME 6 T KNX - HM 6 T KNX - HM 12 T KNX	Actuator ALPHA 5 230 V	9070441
	Actuator ALPHA 5 24 V As Actuator ALPHA 5 230 V, but: - Operating voltage 24 V AC / DC	- All clock thermostats - HMG 6 T - HME 6 T KNX - HM 6 T KNX - HM 12 T KNX - HMT 6 S KNX - HMT 12 S KNX	Actuator ALPHA 5 24 V	9070442
	Valve adapter VA 80 - Valve adapters for Onda, Schlösser(from 1993), Oventrop (M 30 x 1.5), Heimeier, Herb, Therm-Concept, Frank, Roth (distributor), Dinotherm (distributor) - Other adapters available upon request	- ALPHA 5 230 V - ALPHA 5 24 V - CHEOPS control KNX - CHEOPS drive KNX	Valve adapter VA 80	9070437
	Valve adapter VA 78 - Valve adapters for Danfoss RA - Other adapters available upon request	- ALPHA 5 230 V - ALPHA 5 24 V - CHEOPS control KNX - CHEOPS drive KNX	Valve adapter VA 78	9070436

	Description	Suitable for	Type	Article number
	Frame RAMSES 74x - Frame for mechanical room thermostats - Without central part	- RAMSES 741 - RAMSES 746 - RAMSES 748	Frame RAMSES 74x	9070603
	Central part RAMSES 741/748 - Central part without switch section and setting button	- RAMSES 741 - RAMSES 748	Central part RAMSES 741/748	9070602
	Central part RAMSES 746 - Central part with switch section and setting button	- RAMSES 746	Central part RAMSES 746	9070601
	Power unit CO₂-sensor - 24 V/12 W flush-mounted power unit (SELV)	- AMUN 716 R	Power unit CO ₂ -sensor	9070494
	Contact temperature sensor - Contact temperature sensor in the cover flap housing for measuring the temperature at pipes and curved surfaces	- TA 4 S KNX - TA 6 S KNX - TA 8 S KNX	Contact temperature sensor	9070489
	Mast mounting S - For mast or corner installation of max. 2 weather stations Meteodata, LUXOR or LUNA - Diameter 48–60 mm	- LUXOR 440 - LUXORliving M140 - Meteodata KNX - LUNA 131 S KNX - LUNA 133 KNX	Mast mounting S	9070928
	GSM cable PHARAO-II - PHARAO-II GSM interface cable - Enables connection to be established and SMS data to be transmitted to mobile telephone, email address or fax machine. The interface for connecting the GSM cable is located below the plug-in upgrade modules.	- PHARAO-II	GSM cable PHARAO-II	9070329
	Memory module PHARAO-II - Plug-in EEPROM memory module (5 kByte) - External memory module for transferring and/or downloading the program from or to the internal EEPROM system memory. Internal program is deactivated for as long as the external memory module is plugged in (dual programming).	- PHARAO-II	Memory module PHARAO-II	9070328
	Power unit 24 V DC - Power pack for supply voltage from PHARAO controllers and sensors. Power unit sufficient for 5 x PHARAO-II 14/15 or 4 x PHARAO-II 24/25 controls - Width: 3 modules	- LUNA 131 DDC - PHARAO-II	Power unit 24 V DC	9079330
	Programming cable PHARAO - For series connection (RS 232) to enable control programs to be configured and parameterised. This cable is used to connect an analogue model for remote maintenance and remote control.	- PHARAO-II	Programming cable PHARAO	9070252

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Packaging units

For the optimization of your logistical processes, we offer you the following packaging units in addition to individual packages:

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0010002	ELPA 1	10	-
0030002	ELPA 3	10	-
0060002	ELPA 6	10	-
0060003	ELPA 6 plus	10	-
0080002	ELPA 8	10	300
0090001	ELPA 9	10	-
0200000	theben-eltimo 020 S	5	-
0200300	theben-eltimo 020 S DCF	5	-
0260030	theben-timer 26	10	-
0260855	theben-timer 26 IP 44	5	-
0270930	theben-timer 27	10	-
0770802	FRI 77 h-2	5	-
0770832	FRI 77 g-2	5	-
1010200	theLuxe R180 WH	48	-
1010201	theLuxe R180 BK	48	-
1010500	theLuxe S150 WH	24	-
1010501	theLuxe S150 BK	24	-
1010505	theLuxe S180 WH	24	-
1010506	theLuxe S180 BK	24	-
1010510	theLuxe S360 WH	24	-
1010511	theLuxe S360 BK	24	-
1010605	theLuxe P220 WH	18	-
1010606	theLuxe P220 BK	18	-
1010610	theLuxe P300 WH	18	-
1010611	theLuxe P300 BK	18	-
1019610	theLuxe P300 KNX WH	18	-
1019611	theLuxe P300 KNX BK	18	-
1020683	theLeda B20L WH	12	-
1020684	theLeda B20L BK	12	-
1020685	theLeda B30L WH	6	-
1020686	theLeda B30L BK	6	-
1020687	theLeda B50L WH	6	-
1020688	theLeda B50L BK	6	-
1020701	theLeda D SL AL	16	-
1020702	theLeda D SUL AL	16	-
1020703	theLeda D UL AL	16	-
1020704	theLeda D UDL AL	8	-
1020705	theLeda D BL AL	6	-
1020706	theLeda D BL plus AL	4	-
1020721	theLeda S10L WH	24	-
1020722	theLeda S10L BK	24	-
1020723	theLeda S20L WH	16	-
1020724	theLeda S20L BK	16	-
1020741	theLeda P12L WH	8	-
1020742	theLeda P12L AL	8	-
1020743	theLeda P24L WH	8	-
1020744	theLeda P24L AL	8	-
1020811	theLeda EC10 WH	8	-
1020812	theLeda EC10 BK	8	-
1020813	theLeda EC20 WH	8	-
1020814	theLeda EC20 BK	8	-
1020815	theLeda EC30 WH	6	-
1020816	theLeda EC30 BK	6	-
1020901	theLeda D S AL	16	-
1020902	theLeda D SU AL	16	-
1020903	theLeda D U AL	16	-
1020904	theLeda D UD AL	8	-

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1020906	theLeda D B plus AL	4	-
1020907	theLeda D B plus S AL	4	-
1020921	theLeda S10 WH	24	-
1020922	theLeda S10 BK	24	-
1020923	theLeda S20 WH	16	-
1020924	theLeda S20 BK	16	-
1020931	theLeda S10 W WH	24	-
1020932	theLeda S10 W BK	24	-
1020933	theLeda S20 W WH	16	-
1020933	theLeda S20 W BK	16	-
1020941	theLeda P12 WH	8	-
1020942	theLeda P12 AL	8	-
1020943	theLeda P24 WH	8	-
1020944	theLeda P24 AL	8	-
1030030	LUXA 103-200	60	-
1030031	LUXA 103-200 T	60	-
1030550	theMova S360-100 AP WH	60	-
1030551	theMova S360-100 AP GR	60	-
1030555	theMova S360-101 AP WH	60	-
1030556	theMova S360-101 AP GR	60	-
1030560	theMova S360-100 DE WH	72	-
1030561	theMova S360-100 DE GR	72	-
1030565	theMova S360-101 DE WH	72	-
1030566	theMova S360-101 DE GR	72	-
1260901	LUNA 126 star E	40	-
1270700	LUNA 127 star	5	-
1280700	LUNA 128 star	5	-
1420721	BZ 142-1	10	-
1510011	SYN 151 h	5	-
1600001	SYN 160 a	10	-
1610011	SYN 161 d	5	100
1690801	SYN 169 s	5	-
1700130	SELEKTA 170 top3	100	-
1710330	SELEKTA 171 top3 RC	100	-
1720130	SELEKTA 172 top3	100	-
1740130	SELEKTA 174 top3	100	-
1790008	TM 179 h	5	-
1800001	SUL 180 a	10	-
1810011	SUL 181 d	5	100
1880108	SUL 188 hw	5	-
1890108	SUL 189 hw	5	-
1890801	SUL 189 s	5	-
1891801	SUL 189 s 110V	5	-
1900001	MEM 190 a	10	-
1910011	SUL 191 w	5	-
2000050	PresenceLight 180	45	-
2009000	PresenceLight 360B-KNX WH	45	-
2009050	PresenceLight 180B-KNX WH	45	-
2009100	PresenceLight 360 PLLON WH	45	-
2009150	PresenceLight 180 PLLON WH	45	-
2010001	compact office DIM	45	-
2010300	thePassa P360-101 UP WH	60	-
2010330	thePassa P360 Slave UP WH	60	-
2010340	thePassa P360-221 DALI UP WH	60	-
2019300	thePassa P360 KNX UP WH	60	-
2030102	PlanoCentro 101-EWH	48	-

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2030302	PlanoCentro 300-EWH	48	-
2030502	PlanoCentro 201-EWH	48	-
2039100	PlanoSpot 360 KNX DE WH	72	-
2039200	PlanoSpot 360 PSLON DE WH	72	-
2039300	PlanoSpot 360 KNX S DE WH	72	-
2040102	PlanoCentro 000-EWH	48	-
2059102	PlanoCentro EWH-A KNX	48	-
2069102	PlanoCentro EWH PCLON	48	-
2070105	thePrema P360-101 E UP WH	60	-
2070106	thePrema P360-101 E UP GR	60	-
2070130	thePrema P360 Slave E UP WH	60	-
2070131	thePrema P360 Slave E UP GR	60	-
2070600	thePrema S360-100 E UP WH	60	-
2070601	thePrema S360-100 E UP GR	60	-
2070605	thePrema S360-101 E UP WH	60	-
2070606	thePrema S360-101 E UP GR	60	-
2070630	thePrema S360 Slave E UP WH	60	-
2070631	thePrema S360 Slave E UP GR	60	-
2079000	thePrema P360 KNX UP WH	60	-
2079001	thePrema P360 KNX UP GR	60	-
2079500	thePrema S360 KNX UP WH	60	-
2079501	thePrema S360 KNX UP GR	60	-
2080020	theRonda P360-100 M UP WH	60	-
2080021	theRonda P360-100 M UP GR	60	-
2080025	theRonda P360-101 M UP WH	60	-
2080026	theRonda P360-101 M UP GR	60	-
2080030	theRonda P360 Slave UP WH	60	-
2080031	theRonda P360 Slave UP GR	60	-
2080040	theRonda P360-110 DALI UP WH	60	-
2080045	theRonda P360-330 DALI UP WH	60	-
2080520	theRonda S360-100 UP WH	60	-
2080521	theRonda S360-100 UP GR	60	-
2080525	theRonda S360-101 UP WH	60	-
2080526	theRonda S360-101 UP GR	60	-
2080530	theRonda S360 Slave UP WH	60	-
2080531	theRonda S360 Slave UP GR	60	-
2080550	theRonda S360-100 AP WH	60	-
2080555	theRonda S360-101 AP WH	60	-
2080560	theRonda S360-100 DE WH	72	-
2080565	theRonda S360-101 DE WH	72	-
2080580	theRonda S360-110 DALI UP WH	60	-
2089000	theRonda P360 KNX UP WH	60	-
2690008	SYN 269 h	5	-
4930279	DMB 1 T KNX	40	-
5320001	DIMAX 532 plus	40	-
5340001	DIMAX 534 plus	5	-
5410130	DIMAX 541 plus E	44	-
5420130	DIMAX 542 plus S	44	-
5440001	DIMAX 544 plus	40	-
6100130	TR 610 top3	100	-
6110130	TR 611 top3	100	-
6110330	TR 611 top3 RC	100	-
6120130	TR 612 top3	100	-
6220130	TR 622 top3	100	-
7010001	RAMSES 701	10	-
7020001	RAMSES 702	10	-

Art.-No.	Type	Number Unit 1	Number Unit 2
7030001	RAMSES 703	10	-
7040001	RAMSES 704	10	-
7050001	RAMSES 705	10	-
7060001	RAMSES 706	10	-
7070001	RAMSES 707	10	-
7080001	RAMSES 708	10	-
7090001	RAMSES 709	10	-
7150002	SOTHIS 715	5	-
7410130	RAMSES 741	5	-
7460130	RAMSES 746	5	-
7480130	RAMSES 748	5	-
9070504	AP-Rahmen LUXA 103-200	90	-
9070510	Abdeckrahmen PräsenzLight 360 WH	10	-
9070513	AP-Rahmen PräsenzLight	5	-
9070514	AP-Rahmen compact	5	-
9070610	Antenne top2 RC-GPS	5	-
9070627	Abdeckrahmen PräsenzLight 180 SR	10	-
9070628	Abdeckrahmen PräsenzLight 180 BK	10	-
9070629	Abdeckrahmen PräsenzLight 180 WH	10	-
9070634	AP-Rahmen PräsenzLight BK	5	-
9070635	AP-Rahmen PräsenzLight SR	5	-
9070637	AP-Rahmen compact BK	5	-
9070638	AP-Rahmen compact SR	5	-
9070758	Schwenkhalterung theLeda EC WH	40	-
9070759	Schwenkhalterung theLeda EC BK	40	-
9070760	theLeda B Motion Module WH	36	-
9070761	theLeda B Motion Module BK	36	-
9070762	theLeda B Light Module WH	64	-
9070763	theLeda B Light Module BK	64	-
9070902	Eckwinkel theLuxe S WH	96	-
9070903	Eckwinkel theLuxe S BK	96	-
9070904	Eckwinkel theLuxe P WH	96	-
9070905	Eckwinkel theLuxe P BK	96	-
9070906	Abstandsrahmen theLuxe S WH	156	-
9070907	Abstandsrahmen theLuxe S BK	156	-
9070908	Abstandsrahmen theLuxe P WH	168	-
9070909	Abstandsrahmen theLuxe P BK	168	-
9070985	theSenda B	80	-
9070986	AP-Rahmen LUXA 103-100 U	54	-
9070987	Eckwinkel 10 BK	96	-
9070988	Abstandsrahmen 10 BK	168	-

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List of discontinued models

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Discontinued model		Successor	
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theLeda E10L BK	1020712	theLeda B20L BK	1020684
theLeda E20L WH	1020713	theLeda B20L WH	1020683
theLeda E20L BK	1020714	theLeda B20L	1020684
theLeda E30L WH	1020715	theLeda B30L WH	1020685
theLeda E30L BK	1020716	theLeda B30L BK	1020686
LUXA 102 FL LED 32W WH	1020775	theLeda B30L WH	1020685
LUXA 102 FL LED 32W BK	1020776	theLeda B30L BK L	1020686
theLeda B20 WH	1020883	theLeda B20L WH + theLeda B Sensor module WH	1020683+9070760
theLeda B20 BK	1020884	theLeda B20L BK + theLeda B Sensor module BK	1020684+9070761
theLeda B50 WH	1020887	theLeda B50L WH + theLeda B Sensor module WH	1020687+9070760
theLeda B50 BK	1020888	theLeda B50L BK + theLeda B Sensor module BK	1020688+9070761
theLeda E10 WH	1020911	theLeda EC10 WH	1020811
theLeda E10 BK	1020912	theLeda EC10 BK	1020812
theLeda E20 WH	1020913	theLeda EC20 WH	1020813
theLeda E20 BK	1020914	theLeda EC20 BK	1020814
theLeda E30 WH	1020915	theLeda EC30 WH	1020815
theLeda E30 BK	1020916	theLeda EC30 BK	1020816
LUXA 102-180 LED 32W WH	1020975	theLeda B30L WH + theLeda B Sensor module WH	1020685+9070760
LUXA 102-180 LED 32W BK	1020976	theLeda B30L BK + theLeda B Sensor module BK	1020686+9070761
theMova S360-100 WH WINSTA	1030575	No successor	-
theMova P360-100 WH GST	1030610	No successor	-
theMova P360-100 WH WINSTA	1030615	No successor	-
theMova S360 KNX AP WH	1039550	theRonda S360 KNX AP WH	2089550
theMova S360 KNX AP GR	1039551	theRonda S360 KNX AP GR	2089551
theMova S360 KNX DE WH	1039560	theRonda S360 KNX FLAT DE WH	2089560
theMova S360 KNX DE GR	1039561	theRonda S360 KNX FLAT DE GR	2089561
SPHINX 104-360 AP	1040360	theRonda S360-100 UP WH + Surface frame110A WH	2080520+9070912
SPHINX 104-360/2 AP	1040362	theRonda S360-101 UP WH + Surface frame 110A WH	2080525+9070912
SPHINX 104-360	1040370	theRonda S360-100 UP WH	2080520
SPHINX 104-360/2	1040372	theRonda S360-101 UP WH	2080525
SPHINX 331 S KNX	1079215	theRonda S360 KNX FLAT DE WH	2089560
SPHINX 332 S KNX	1079216	theRonda S360 KNX FLAT DE WH	2089560
LUNA 108 EL	1080700	LUNA 108 plus EL	1080900
LUNA 108 AL	1080710	LUNA 108 plus AL	1080910
LUNA 109 AL	1090100	LUNA 108 plus AL	1080910
LUNA 109 EL	1090200	LUNA 108 plus EL	1080900
LUNA 126 star	1260700	LUNA 126 star E	1260900
SELEKTA 171 top2 RC	1710100	SELEKTA 171 top3 RC	1710330
SELEKTA 172 top2	1720100	SELEKTA 172 top3	1720130
PräsenzLight 360	2000000	theRonda S360-100 UP WH	2080520
compact passimo WH	2010080	thePassa P360-101 UP WH	2010300
compact passage	2010090	thePassa P360-101 UP WH	2010300
compact passage GST	2010100	No successor	-
compact passage WINSTA	2010105	No successor	-
compact passage BK	2010806	thePassa P360-101 UP GR	2010301
compact passage SR	2010807	thePassa P360-101 UP GR	2010301
compact passimo BK	2010809	thePassa P360-101 UP GR	2010301
compact passimo SR	2010810	thePassa P360-101 UP GR	2010301
compact office 24V	2014000	No successor	-
compact office 24V Lux	2014001	No successor	-
compact passage 24V	2014090	No successor	-
compact passimo KNX WH	2019280	thePassa P360 KNX UP WH	2019300
compact passage KNX	2019290	thePassa P360 KNX UP WH	2019300
compact passage KNX BK	2019803	thePassa P360 KNX UP GR	2019301
compact passage KNX SR	2019804	thePassa P360 KNX UP GR	2019301
compact passimo KNX BK	2019809	thePassa P360 KNX UP GR	2019301
compact passimo KNX SR	2019810	thePassa P360 KNX UP GR	2019301
ECO-IR DUAL-C NT	2020401	No successor	-

Type	Art-No.	Type	Art-No.
Discontinued model		Successor	
theRonda P360-100 WH WINSTA	2080015	No successor	-
theRonda S360-100 WH WINSTA	2080575	No successor	-
LUXOR 414	4140000	LUXOR 426	4260000
HMT 6 KNX	4900273	HMT 6 S KNX	4900373
HMT 12 KNX	4900274	HMT 12 S KNX	4900374
LUXOR Set 4	4990004	No successor	-
DIMAX 542 plus	5420001	DIMAX 542 plus S	5420130
TR 611 top2	6110100	TR 611 top3	6110130
TR 611 top2 RC	6110300	TR 611 top3 RC	6110330
TR 622 top2	6220100	TR 622 top3	6220130
TR 684-2 top2	6840101	No successor	-
VARIA 826 S BK KNX	8269211	VARIA 826 S WH KNX	8269210
Stecksocket BZ	9070042	No successor	-
Spannklammer BZ	9070043	No successor	-
SendoPro 868-A	9070675	theSenda B	9070985
Surface frame 75A WH	9070949	Surface frame 75B WH	9070796
Surface frame 75A BK	9070950	No successor	-
Surface frame 75A SR	9070951	No successor	-

Theben AG

General Delivery and Sales Conditions

For use with companies (status 2016-09-01)

Preamble

All deliveries and services are based - also in the future - exclusively on the following conditions, even if we do not refer to them specifically in the individual case. Their validity can only be partly or totally excluded by express written agreement for an individual transaction. General terms and conditions, especially purchase conditions of the purchaser, shall not apply to our deliveries and services. We shall not be bound by these terms and conditions even if we do not object to them expressly in an individual case; we herewith object to them. Our General Delivery and Sales Conditions are regarded as accepted, at the latest with the acceptance of the goods or the service.

I. SCOPE OF DELIVERY OBLIGATIONS

1. Our offers are non-binding, even if made on the purchaser's request. A legally binding contractual relationship with the purchaser shall only be constituted once we have confirmed the order in writing, which may also be possible by fax, by letters created automatically without signature, or e-mail; the same applies to modifications or amendments to the contract. As far as scope, type and time of the delivery are concerned, our written order confirmation shall be binding.

2. We reserve the right to any modifications of construction, production and design of our products. Our catalogues and our product presentations published on the Internet are continually being updated. Any illustrations and drawings contained therein shall not be binding and shall not be part of the properties agreed upon. They neither represent any guarantee for durability nor quality.

3. The documents belonging to the offer, such as drawings, data sheets, figures, diagrams, files, etc., shall only be approximates where not expressly described as being binding. The documents shall remain our property; we reserve all rights to them. Without our written consent, they must not be disclosed to any third party and they must be returned to us at any time on request.

4. Call orders must be placed and accepted in due time and with the partial quantities agreed. In case of call orders where term, production batch quantities and release times have not been agreed, we shall be entitled to request a binding definition of the releases 3 months after the date of the order confirmation, at the latest. If the purchaser does not comply with this request within 3 weeks, we shall be entitled to grant him a last additional period of two weeks for doing so and when this additional period has lapsed as well, we shall be entitled to withdraw from the contract or to refuse delivery and claim damages. In any case, the entire quantity ordered in the call order has to be accepted and to be paid by the purchaser 18 months after the order, except when otherwise stipulated. If the contractual quantity should be exceeded by the individual calls, we shall be entitled to deliver the surplus, but not obligated to do so. We can charge for the excess at the prices valid at the time of the call or the delivery.

II. PRICE

1. All prices are quoted in EURO. The applicable value added tax shall be charged separately.

2. The prices quoted apply to delivery ex works, without insurance and packaging.

3. Surcharges and a recalculation of the agreed remuneration shall be admissible as far as they are necessitated by the circumstances, e.g. material costs, wage or energy cost increases, an increase of the public charges etc., and if the goods or services are to be provided later than 4 months after the contract date. In case of any other price increases, the purchaser shall be entitled to withdraw from the contract if the list price has been increased far more than the general costs of living. Any deliveries for subsequent orders that are placed after the date of the price adjustment shall be charged at the new prices without the purchaser being entitled to withdraw from the contract.

III. DELIVERY

1. The delivery term shall start with the dispatch of the order confirmation, but not before all details of the perfor-

mance of the order have been clarified and not before receipt of an agreed advance payment or provision of material; the delivery terms are always stated by us subject to our own supply by our suppliers. The delivery term shall be deemed to have been complied with when the delivery item has been dispatched or collected before the expiration of this term or when a ready-for-dispatch note has been issued in cases where the goods could not be dispatched or collected without our being responsible for this.

2. In case of force majeure or other events beyond our responsibility that would threaten the smooth processing of the order, in particular delivery delays of our suppliers, disturbances of traffic or operation, industrial disputes, shortage of materials or energy, we shall be entitled to withdraw, entirely or partially, from the contract or to postpone delivery without the purchaser being entitled to claim damages. The purchaser may request from us a statement specifying whether we want to withdraw or whether we want to fulfil the contract within an adequate period of time. If we do not make such a statement, the purchaser shall be entitled to withdraw from the contract. We shall not be liable for the events or circumstances referred to above even if they occur during an existing delay of delivery.

3. In case of a delivery delay for which we are responsible, the purchaser shall grant us an adequate grace period. Once this period has expired, the purchaser may claim damages and/or withdraw from the contract insofar as the goods have not been delivered or indicated as being ready for dispatch until the end of this period. The purchaser is not entitled to withdraw from the contract if delivery delay has not been caused by us.

4. The purchaser is only entitled to claim damages as a replacement for the services if the cause of the damage is based on intent or gross negligence on our part. This does not apply if it is a firm deal.

5. The delivery obligations and the delivery terms shall be suspended as long as the purchaser is in delay with acceptance of the goods or any other obligation, without our rights from the purchaser's delay being thereby affected, or without him exceeding the credit limit granted by us. In this case, the risk of accidental loss or accidental deterioration shall pass to the purchaser from the date he is in delay.

6. The delivery term originally agreed shall no longer apply if the order is modified with our written consent.

7. Adequate partial deliveries as well as deviations from the order quantities (max. +/- 5 %) shall be admissible if the purchaser can be reasonably expected to accept this and as long as the latter's interests are taken into account.

8. The weight and the number of pieces of the goods delivered determined by us shall be decisive for the invoicing.

IV. DISPATCH

1. The goods shall be dispatched at the purchaser's costs and risk from a location to be determined by us.

2. Unless the purchaser has submitted any special requests, we shall choose, at our own discretion, the packaging, as well as type and channel of dispatch. The additional costs for special wishes of the purchaser shall be borne by the latter. We shall not be obliged to choose the cheapest type of dispatch.

3. If the dispatch or the delivery is delayed upon the purchaser's request, we shall be entitled to set him an adequate period of time for accepting the goods and to demand immediate acceptance as well as a compensation for the damage caused by the delay once this period has lapsed.

V. TERMS OF PAYMENT

1. Payments shall be made in accordance with the conditions specified in our order confirmation.

2. The purchaser bears the costs for his payment, especially all kinds of banking charges and expenses.

3. Cheques shall be accepted only with the usual proviso. With any type of payment, the settlement date shall be the

day on which we can dispose over the amount due.

4. If a deferment of payment is granted or if the purchaser is in default with his obligations to pay, he shall, in the meantime, be liable to pay interests of 9 percent above the respective basic interest rate, without the need for a reminder notice. We reserve the right to claim further damages due to the delay. The purchaser reserves the right to prove that lower damages have been incurred. Furthermore, we are entitled to charge the purchaser a fixed rate of € 40.00 for the reminder.

5. The purchaser shall not be entitled to offset payments against any counter claims or rights unless his claims or rights are acknowledged by us, uncontested or final and absolute. The purchaser is not entitled to retain payments on account of disputed counterclaims either.

6. All our claims are due immediately if terms of payment are not adhered to, or we become aware of circumstances which appear to impair the creditworthiness of the purchaser. In this case, we are also entitled to supply outstanding consignments on cash-in-advance terms or security deposit, or to withdraw from the contract after a reasonable grace period and/or claim damages for non-fulfilment. In addition, we may prohibit the resale or processing of the goods delivered and request that the purchaser, at his costs, return the goods to us or assign the indirect possession of the goods delivered, and withdraw the authorization to collect claims pursuant to Section IX. 7. Already now, the purchaser agrees that we shall, in the mentioned cases, be authorized to enter into his premises and to take away the goods delivered.

7. Payments shall generally be set off against the oldest invoice that is due for payment. As long as an older invoice has not been paid, the purchaser is not entitled to discount on later invoices.

VI. COMPLAINTS AND NOTICES OF DEFECT

1. Complaints because of incomplete or incorrect delivery or notices of evident defects must be delivered to us in writing immediately, at the latest, however, within 2 weeks after receipt of the goods. Any other defects must be reported to us in writing immediately, at the latest, however, within 2 weeks after they have been detected. If we have not received the complaint or notice of defect in due time, any warranty claims of the purchaser shall be excluded. In case of defects reported in due time, the purchaser shall be entitled to the claims according to Section VII.

2. In case of damage in transit, the purchaser must procure an ascertainment of the damage by the railroad company, the postal service or the transport company.

3. If a part of the goods delivered is defective, the purchaser shall not be entitled to reject the entire delivery, unless the partial delivery is of no interest to the purchaser.

VII. WARRANTY

1. The purchaser's claims for supplementary performance shall be time-barred within 12 months from the statutory start of the limitation period. The same applies for withdrawal and diminution. This time limit does not apply if:

- the law according to § 438 section 1 no. 2 BGB and § 634a section 1 no. 2 BGB requires longer time periods,
- in case of intent,
- in case of fraudulent concealment, and
- in case of non-compliance with a quality guarantee.

We shall be obliged, at our option, to eliminate any defects or make a replacement delivery if the delivery items are defective. The purchaser's reimbursement claims for expenses according to § 445a BGB shall also be time-barred within 12 months from the statutory start of the limitation period, provided that the last contract in the supply chain is not a consumer goods purchase. Any legal provisions regarding suspension of expiration, suspension and recommencement of the limitation period remain unaffected. Reimbursement claims against us according to § 445a BGB are only valid if the purchaser has not made an agreement with his customer which goes beyond the statutory claims for defects.

2. The purchaser shall grant us the time and opportunity that, in our equitable discretion, is required for the elimination of the defects. Any parts that are replaced shall become our property.

3. If the supplementary performance fails, if we let the adequate period granted to us for this purpose expire without making a new delivery or without eliminating the defect, or if subsequent performance is impossible or refused by us, the purchaser shall be entitled to withdraw from the contract or demand a reduction of the purchase price, the same shall apply to cases where we are unable to provide supplementary performance.

4. The warranty shall neither apply to defects and/or damage due to normal wear and tear nor defects and/or damage caused by inappropriate or negligent use, excessive stress, improper use, wrong handling etc. or circumstances that are not provided for in the contract unless the damage is due to our fault.

5. Without our consent, warranty claims may not be assigned to any third party.

6. We shall not be liable for any defects caused by improper modifications or repairs that are carried out by the purchaser or a third party.

7. Our liability for essential third-party products shall be restricted to the assignment of the warranty claims we are entitled to from the supplier of the third-party product unless satisfaction from the assigned right fails or the assigned claim cannot be enforced for any other reasons.

8. Unless otherwise provided below, any further claims of the purchaser against us, irrespective of the legal cause thereof, shall be excluded, in particular claims for the compensation of a damage that does not exist and/or occur in the goods delivered themselves (e.g. loss of profit, consequential damage or other economic losses); this exemption from liability shall not apply if liability is required by law because of deliberate action, gross negligence or a promise of guarantee or if an essential contractual obligation has been violated or in case of injuries to life and limb or health.

In case of negligent, but not grossly negligent violation, our liability shall be restricted to the replacement of the typical foreseeable damage.

9. The above provisions shall apply accordingly to the delivery of other goods than those agreed upon in the contract.

VIII. LIABILITY, PERIOD OF LIMITATION

1. The exclusion and the limitations of our liability for damages as set forth in Section VII. 8 shall apply accordingly to all cases of our liability for damages due to violation of contractual, or quasi-contractual obligations and tortious act. They shall not apply to claims pursuant to Paragraphs 1 and 4 of the Product Liability Law and to claims due to initial inability to perform at the point of conclusion of the contract or impossibility for which we are responsible. This exemption from liability shall not apply if liability is required by law because of deliberate action, gross negligence or a promise of guarantee or if an essential contractual obligation has been violated or in case of injuries to life and limb or health.

2. If our liability for damages is excluded or restricted, this shall apply in the same way to the personal liability of our executive bodies, employees or authorized agents.

3. The claims of the purchaser referred to in Sec. 1 shall become time-barred after 24 months, calculated from the end of the year of the passing of the risk. If the statutory period of limitation is shorter than 24 months, this statutory period shall be applicable to the relevant claims on the part of the purchaser. This reduction of the period of limitation shall not apply to claims for reasons of tortious act or product liability.

4. The statutory provisions concerning the burden of proof shall remain unaffected.

IX. RETENTION OF TITLE

1. All goods delivered (goods subject to retention of title) shall remain our property until all and any claims to which we are entitled because of the business relationship, in particular the outstanding balance claims, have been fully settled by the purchaser. This shall also apply when payments are made on specially designated claims.

2. If the goods subject to retention of title are combined with other goods by the purchaser, we shall acquire co-ownership of the new object pro rata of the invoice value of the goods subject to retention of title to the invoice value of the other goods used. If our ownership lapses due to a combination, the purchaser herewith agrees to assign to us his property rights to the new objects to the amount of the invoice value of the goods subject to retention of title and keeps them for us, free of charge. The resulting co-ownership rights shall be considered as goods subject to retention of title within the meaning of Section 1. We accept the assignment.

3. The purchaser may sell the goods subject to retention of title in the normal course of business at his terms and conditions only if these contain a comprehensive retention of title in accordance with the provisions set forth herein, and as long as he is not in default, provided that the claims from the resale pass to us pursuant to Sections 4. and 6. hereof. The purchaser does not have any other right of disposition of the goods subject to retention of title, in particular the authorisation to dispose of the goods subject to retention of title shall be automatically revoked if insolvency proceedings are applied for or liquidation commenced regarding the assets of the purchaser

4. The claims of the purchaser from reselling the goods subject to retention of title are herewith assigned to us. They serve as security to the same extent as the goods subject to retention of title. We herewith accept the assignment.

5. If the purchaser sells the goods subject to retention of title together with other goods not obtained from us, the assignment of claims from the resale shall only correspond to the amount of the invoice value of the goods subject to retention of title that are sold in the individual case. When goods in which we have a co-ownership share pursuant to Sec. 2. are sold, the claims shall be deemed to have been assigned corresponding to the value of this co-ownership shares.

6. If the purchaser uses the goods subject to retention of title for the execution of a contract for work, Sections 4. and 5. shall apply accordingly to the claims from this contract.

7. The purchaser shall be entitled to collect claims from sales according to Sections 3., 5., and 6. until this permission is revoked by us, which shall be admissible at any time. We will only make use of the right of revocation in the cases specified in Section 3., as well as V. 5. Any other assignment of the claims by the purchaser shall not be permitted. Upon our request, the purchaser shall be obliged to inform his customers immediately about this assignment to us – unless we do it ourselves – and to provide any information and documents required for the collection of claims to us. The purchaser is prohibited from hypothecation or transfer of the goods by way of security.

8. Our retention of title implies that, once all our claims have been fully paid, the title to the goods subject to retention of title shall ipso jure pass to the purchaser and he shall be entitled to the assigned claims without any restrictions. If the value of the existing securities exceeds the secured claims by more than 20 % in total, we shall be obliged to release securities accordingly, at our option, on request of the purchaser. The assessment of securities shall be based on their realizable value.

9. The purchaser shall inform us immediately about any seizure or any other threat or impairment to our ownership rights or claims by a third party and provide the bailiff's return or any other documents to us and he shall do anything within his power to protect our rights.

10. We shall be entitled at any time to enter into the warehouse and the business premises of the purchaser, in order to remove, separate or label the goods subject to retention of title. At our request, the purchaser shall provide any relevant information concerning the goods subject to retention of title and hand over the related documents. The purchaser, at his costs, shall be obliged to provide comprehensive insurance coverage for the goods subject to retention of title in our favour and to supply evidence thereof on request. He herewith assigns all claims from these insurances to us; we accept the assignment.

11. The assertion of our retention of title or the revocation of the authorizations granted herein shall not be considered as a withdrawal from the contract. The purchaser's right of possession in the goods subject to retention of title expires if he does not meet his obligations arising from this or another contract. We shall then be entitled to take possession of the goods subject to retention of title ourselves and to exploit them in the best possible way by means of a private sale or an auction, without prejudice to the payment obligations or any other duties of the purchaser. The proceeds thus realized shall be appropriated to the purchaser's outstanding payments after the costs have been deducted. Should there be any surplus, this shall be paid to the purchaser.

12. If the retention of title or the assignment is not effective under the law to which the goods belong, the corresponding security valid in this field of law shall be deemed as agreed. If the cooperation of the purchaser is required in this context, he shall take any measures that are necessary for the constitution and preservation of such rights.

X. TOOLS

1. Tools, moulds, appliances and the like - in the following referred to as "tools" - are in principle our assets, even if the purchaser had paid for these wholly or partially. This shall apply irrespective of whether the tools were manufactured by us or by commissioned third parties.

2. We undertake not to manufacture any parts for third parties using tools for which the purchaser has paid the entire cost, providing the purchaser supplies us with follow-up orders. This obligation expires without a claim for reimbursement of any type against us arising for the purchaser if we do not receive further orders within two years after the last order.

3. We shall store the tools in good condition free of charge. The purchaser shall bear the costs of maintenance and repairs. Our obligation to store the tools shall come to an end after expiry of the two-year period stated in Sec. 2. We shall be entitled to dispose of the tools afterwards.

4. The provisions above (Sections 1 to 3) shall not apply to tools for common and generally usable items.

XI. PROTECTIVE RIGHTS OF THIRD PARTIES

Insofar as we have to manufacture products on the basis of drawings, specifications, models, or samples given to us by the purchaser, the purchaser takes upon himself the responsibility of guaranteeing to us that the rights of third parties are not infringed upon. In case of violation, the purchaser will indemnify us in full from any claims by third parties and fully reimburse us for any resulting damages. If a third party claims its industrial property rights we are entitled to stop the manufacturing or delivering of the items immediately without checking the legal situation.

XII. MISCELLANEOUS PROVISIONS

1. The place of performance and jurisdiction for both parties under the contract is D-72401 Haigerloch, Germany. We are also entitled to file an action against the purchaser at the purchaser's general place of jurisdiction.

2. All legal relations between the purchaser and us shall be governed exclusively by law of the Federal Republic of Germany.

3. Should one or several of the provisions of these terms and conditions or the other contractual provisions be or become invalid, this shall not affect the validity of the remaining provisions. The invalid provisions shall be interpreted in such a way that the legal and economic purpose intended with them is achieved to the greatest possible extent. The same shall apply if, during the execution of the agreement, a gap in the agreement requiring an amendment becomes evident. The contracting parties undertake to replace the ineffective provisions immediately by legally valid provisions or to close the contractual gap.

4. We shall store the purchaser's data for the purposes of the contractual relationship.

Theben Worldwide

Headquarter | Theben Group Companies

Headquarter

Theben AG

Hohenbergstr. 32
D-72401 Haigerloch, GERMANY
Phone +49 7474 692-0
Fax +49 7474 692-150
info@theben.de
www.theben.de

Theben Group Companies

AUSTRALIA

Theben PTY LTD

Unit 1/14 Drury Terrace
5042 Clovelly Park, South Australia
Phone +61 8 8463 1163
Fax +61 8 8464 0277
sales@thebenpty.com.au
www.theben.de/en

FINLAND

Theben OY

Liikkalankuja 6
00950 Helsinki
Phone +358 9 4242 7877
info@theben.fi
www.theben.fi

FRANCE

Theben S.A.R.L.

ZAC de la Madeleine
15 Rue de la Tuilerie
77500 Chelles
Phone +33 1 82770100
Fax +33 1 60200083
theben@theben.fr
www.theben.fr

GREAT BRITAIN

Timeguard Ltd

Victory Park, 400 Edgware Road
London NW2 6ND
Phone +44 208 4508944
Fax +44 208 4525143
csc@timeguard.com
www.timeguard.com

ITALY

Theben S.R.L.

Piazza Giorgio La Pira 4
20851 Lissone (MB)
Phone +39 039 9370 589
Fax +39 039 9370 608
info@theben.it
www.theben.it

NETHERLANDS

Theben Nederland

Laan van de Leeuw 34
7324 BD Apeldoorn
Phone +31 55 2020000
Fax +31 55 2020001
nederland@theben.de
www.theben.de/nl

NORWAY

Theben AG

Janaflaten 47
5179 Godvik
Phone +47 55100667
info@theben.no
www.theben.no

SINGAPORE

Theben Asia Pte Ltd

25 International Business Park,
German Center #03-22/23
609916 Singapore
Phone +65 6560 3464-5
Fax +65 6560 5929
info@theben-asia.com
www.theben.asia

SWEDEN

Theben Electronics AB

Kanalvägen 16
19461 Upplands Väsby
Phone +46 10 450 7200
info@theben.se
www.theben.se

SWITZERLAND

Theben HTS AG

Im Langhag 7b
8307 Effretikon, SWITZERLAND
Phone +41 52 355 1700
Fax +41 52 355 1701
info@theben-hts.ch
www.theben-hts.ch

KNX-Partners

AUSTRALIA

Ivory Egg Aust Pty. Ltd.

Unit 23/6, Jubilee Ave
2102 Warriewood
Phone +61 13 0081 1510
sales@ivoryegg.com.au
www.ivoryegg.com.au

INDIA

Light & Magic Automation Pvt.

Shop No. 9-10-11, Ruby Apartment,
MV Road, Andheri East
Mumbai 400 069
Phone +91 22 2684 5454
Fax +91 22 3260 1603
mihir.shah@advancedindia.com
www.advancedindia.com

INDIA

Venba Tech Pvt. Ltd.,

First Floor, Dilmas Swaure
No. 27 , 1st floor
Shafee Mohammed Road
Nungambakkam
Chennai 600006 India
Phone +91 44 2829 0898

MALAYSIA

A & S Building Tech Sdn Bhd

45-4, Jalan PJU 1/37
Block G , Dataran Prima, Petaling Jaya
47301, Selangor Darul Ehsan
Malaysia
Phone + 603 7780 2710
Fax +603 7880 2712

MALAYSIA

Seikou Systec Sdn Bhd

Jln 9/125D, Desa Petaling No 16-2
57100 Taman Desa Petaling
Kuala Lumpur
Malaysia
Phone: + 603 9057 7793
Fax + 603 9057 7795

NEW ZEALAND

Ivory Egg (NZ) Ltd.

14 Mount Pleasant Avenue
7010 Beachville, Nelson
Phone +64 22 3207665
colin@ivoryegg.co.nz
www.ivoryegg.co.nz

NORWAY

Instell AS

Gjerdumsvei 16, 0484 Oslo
Phone +47 22 021 450
Fax +47 22 021 451
instell@instell.no
www.instell.no

THAILAND

Ibuilt Automation Co., Ltd.

44, 44/1 Rungsiya Village
Ramintra 64, Kannayao Bangkhen
Bangkok 10230
Phone +66 2 918 05613
Fax +66 2 918 0564
patomporn@ibuilt.co.th
www.ibuilt.co.th

UNITED ARAB EMIRATES

Greentec Automation DMCC

Office no. 1002, SABA Tower 1
Cluster E Jumeirah Lakes Tower
P.O. Box 346075
DUBAI
Phone +971 4551 6092
Fax +971 4551 6073
info@greentec-automation.com
www.greentec-automation.com

Greentec is a partner as well as for
the following countries

- Afghanistan
- Bahrain
- Egypt
- Iraq
- Lebanon
- Oman
- Qatar
- Saudi Arabia
- Syria

Theben Worldwide Worldwide Agencies

ARGENTINA

Hertig S.A.

Bolivar 1335
C1141AAD Ciudad de Buenos Aires
Phone +54 11 43617136
ventas@hertig.com.ar
www.hertig.com.ar

AUSTRIA

Siblik Elektrik Ges.M.B.H. & Co.KG

Murbangasse 6
1108 Wien
Phone +43 1 680060
info@siblik.com
www.siblik.com

BELGIUM

Tempolec S.A.

Route de Biesme 49
6530 Thuin
Phone +32 71 590039
info@tempolec.be
www.tempolec.be

BOLIVIA

CORPORACION LYCKAD SAC

Av. Javier Prado Este 3579
San Borja – Lima 41
Peru
Phone 511 4360873
www.corporacionlyckad.com

CANADA

Davis Controls Ltd.

2200 Bristol Circle
Oakville Ontario L6H 5R3
Phone +1 905 8292000
info@daviscontrols.com
www.daviscontrols.com

COLOMBIA

THL LTDA

Cra, 49 B # 91-33, Bogota D.C
Phone +57 1 6218550
ventas-thl@thl.com.co
www.thl.com.co

CROATIA

IGM Solutions j.d.o.o.

Jurja Dobrile 18, 51000 Rijeka
Phone +385 51624776
IGM.jdoo@gmail.com

CYPRUS

Pambos Nicolaou & Son Ltd.

Kimonos 6 Str., Tseri, 2480 Nicosia
Phone +35 22 38 03 77
nicha@cytanet.com.cy
www.pambosnicolaou.com

CZECH REPUBLIC

Elektro-System-Technik

Spol. S. R. O., Pod Pekarnami 338/12
19000 Praha 9
Phone +42 266 090711
est@est-praha.cz
www.est-praha.cz

EGYPT

Manial Systems Corporation

43 EL Manial St.
Cairo Egypt
Phone + 202 25881977 - +202 25889699
manialco@yahoo.com

ESTONIA

Vallin Baltic As

Mäepealse 2, 12618 Tallinn
Phone +372 6593200
info@vallin.ee
www.vallin.ee

GREECE

V. KAFKAS S.A.

Electrical Materials & Lighting
1st km Markopoulou Ave.
190 02 Peania
Phone +30 216 3003000
info@kafkas.gr
www.kafkas.gr

HONG KONG

Friends Environmental Material

Room906A, Kin Tak Fung
Industrial Centre, Wai Yip Street 174
Kwun Tong Kln, Hong Kong
Phone +852 29519710
allenli62@hotmail.com

HUNGARY

Elektro Kamleithner Kft

Jokai utca 32, fszt 4
1195 Budapest
Phone +361 4253288
info@theben.hu
www.theben.hu

ICELAND

Reykjafell Ltd.

Skipholti 35, 105 Reykjavik
Phone +354 588 60 00
reykjafell@reykjafell.is
www.reykjafell.is

INDIA

Cape Electric Private Limited

A-41 (B), SIPCOT Industrial
Growth Centre,
Oragadam, Sriperumbudur Taluk,
Kancheepuram Dist., Tamil Nadu -
602 105
Phone +91 44 37477000
chennai@capeindia.net
www.capeindia.net

INDONESIA

PT Guna Era Distribusi

Jl. Rawa Gelam li No. 8
Kawasan Industri Pulogadung
Jakarta Timur 13930
Phone +62 21 46825050
C-Service@ged-gae.co.id
www.gae.co.id

IRAN

S. G. Riazi Trading

#4. No. 29 Parasto. Str
St. Valiasr Ave., 15929 Tehran
Phone +98 21 888 903 40
info@sgrtrading.net
www.sgrtrading.net

IRELAND

Inter-Konnect

Unit 1, 97-98 Lagan Road
Dublin Industrial Estate
D11RX96 Glasnevin Dublin 11
Phone +353 1 830 4666
info@interk.ie
www.interkonnect.ie

ISRAEL

Galoz Electronics Ltd.

Galoz Building, 7, Hameretz Street
Rosh Ha'ayin 4801707
Phone +972 3 9023456
sales@galoz.co.il
www.galoz.co.il

JORDAN

Noor Ala Noor Est.

245 Gardens Street - Khilda
11192 Amman
Phone +962 65332410
hothyfa@nooralanoor.net
www.nooralanor.net

KOREA

Mahani Electric., LTD.

Bisan 2dong, 576-8
Anyang City, Kyungki-do, Korea
Phone +82 2 2194 3339
yskim@hanmec.co.kr
www.mec.co.kr

LATVIA

SIA Vallin

322 Maskavas iela, 1063 Riga
Phone +371 6718 7204
info@vallin.lv
www.vallin.lv

LEBANON

Garabed Anyanian + Sons

176 Gouraud Street, Beirut
Phone +961 1 255222
gasons@dm.net.lb

LIBYA

Bowabt Al-Magd (W.L.L)

Aljraba Street, Tripoli
Phone +218 213 603240
eng.gelaw@gmail.com

LITHUANIA

Vallin SIA

Pelesos gatve. 3, 306.k., Vilnius
Phone +370 527 288 93
info@vallin.lt
www.vallin.lt

LUXEMBOURG

Marco Zenner S. A. R. L.

Zone Industrielle Zare Est
4385 Ehlerange
Phone +352 44 15 44 1
contact@zenner.lu
www.zenner.lu

Theben Worldwide Worldwide Agencies

MALAYSIA

Electech Distribution Systems

16-1, Jalan 6/89 B, Batu 3 1/2,
Kawasan Perindustrian Trigesi
Off Jalan Sungei Besi
57100 Kuala Lumpur
Phone +60 3 7981 8950
info@edsm.com.my
www.edsm.com.my

MONTENEGRO

Rarovac Komerc Podg.

Bracana Bracanovica 6, 81000 Podgorica
Phone +38 1 81609091
rarovackomerc@t-com.me

MOROCCO

General Technics

77 Rue Rahal Ben Ahmed
Belvédérde, 20300 Casablanca
Phone +212 5 22 246170
genetech@menara.ma

NEW ZEALAND

Hamer Ltd.

85a Falsgrave Street
8011 Christchurch
Phone +64 800 239 239
www.hamerc.co.nz

OMAN

Stars Light L.L.C..

P.O. Box 2822, 112 Ruwi
Phone +968 697 025
starmail@omantel.net.om
www.starlightllc.com

PERU

CORPORACION LYCKAD SAC

Av. Javier Prado Este 3579
San Borja – Lima 41
Peru
Phone 511 4360873
www.corporacionlyckad.com

POLAND

PPUH El-Team Sp. Z.O.O.

Al. Mlodych 26-28
41-106 Siemianowice
Phone +48 322 043 628
el-team@el-team.com.pl
www.el-team.com.pl

PORTUGAL

Duarte Neves, Lda

Qta. Estrangeiros, Rua D 78
2665-601 Venda do Pinheiro
Phone +351 219 668100
info@duarteneves.pt
www.duarteneves.pt

ROMANIA

Unilux International Srl

Bd. Libertatii, nr. 4, bl. 117 et.7 ap 19
ap. 19, Sector 4, 040128 Bucuresti
Phone +4021 3177801
contact@uniluxinternational.ro
www.uniluxinternational.ro

RUSSIA

Marbel LLC

Mitrofan'evskoe shosse, 2,
korp. 2, office 201
190005 St. Petersburg
Phone +7 812 644 6789
theben@marbel.ru
www.marbel.ru

SAUDI ARABIA

Anwar Al-Wessam Est.

Asad bin Al-furat st.
P. O. Box 23521, Riyadh 11436
Phone +966 1 405 5942
info@al-wessam.com
www.al-wessam.com

SERBIA

SOBEL d.o.o.

Ustanicka 125-l
11000 Belgrad
Phone +381 11 3087 507
office@sobel.rs
www.sobel.rs

SINGAPORE

ITE Electric Systems Co. Pte. Ltd.

ITE Electric Building
1, Harrison Road 01-01,
Singapore 369652
Phone +65 6 285 2233
ite@ite.com.sg
www.ite.com.sg

SLOVENIA

MTS International d.o.o.

Perhavčeva ul. 15c, 2000 Maribor
Phone +386 26612001
info@mtsi.si
www.mtsi.si

SLOVAKIA

Elektro-System-Technik, s.r.o.

Mnesická 11
91501 Nové Mesto nad Váhom
Phone +421 327740814
info@est-slovensko.sk
www.est-slovensko.sk

SOUTH AFRICA

Suparule Sa (Pty) Ltd

P.O. Box 76128, 2144 Wendywood
Phone +27 11 4529800
steve@suparule.co.za
www.suparule.co.za

SPAIN

Guijarro Hermanos S.L.

Polig. Ind. Virgen De
Butarque Isaac Peral 6
28914 Leganes (Madrid)
Phone +34 91 6870022
theben@guijarrohermanos.es
www.guijarrohermanos.es

SYRIA

Bouzo Co

Trading-Consulting
Damascus / Syria
Phone +963 11 331 130 6
bouzo_f@yahoo.com

TAIWAN

Canaan Electric Corp.

6F-5, No.63, Sec. 2
Chang An East Road
104 Taipei / Taiwan
Phone +886 2 25082331
sales@canaan-elec.com.tw
www.canaan-elec.com.tw

THAILAND

Technology Instruments Co Ltd

549/9 Onnut Rd.,
Pravet 208/132-137, Bangkok 10250
Phone +662 743 8888
ttic@inet.co.th
www.ttic.co.th

TUNESIA

ELECTRIC BUSINESS AFRICA (EBA)

Zone Industrielle "Morize" BP 65
2090 MORNAG
Phone +216 79350955
tfe.abelafrique@topnet.tn
www.abelafrique.com

TURKEY

Gökhan Elektrik

Perpa Elektrokent Is Merkezi A
A Blok K.8 No. 692-694
80270 Okmeydanı/İstanbul
Phone +90 212 221 32 36
ufuk@gokhanelektrik.com.tr
www.gokhanelektrik.com.tr

UKRAINE

KVK-Elektro, Ltd.

28 Pyrogivskyy shlykh Str., 03083 Kyiv
Phone +380 44 4962883
info@kvk.kiev.ua
www.kvk-elektro.com.ua

UNITED ARAB EMIRATES

Gama Electrical Trading Co.

POB 22185, Sharjah
Phone +971 6 533 5453
info@gama.ae
www.gama.ae

USA

LUMENITE CONTROL

Techn Inc., 2331 North 17th. Av.
Franklin Park, Illinois 60131
Phone +1 847 4551450
customerservice@lumenite.com
www.lumenite.com

Theben is member of:



Follow Theben on the Internet:



theben

Theben AG
Hohenbergstraße 32
72401 Haigerloch
Phone +49 7474 692-0
Fax +49 7474 692-150
info@theben.de
www.theben.de

Service Hotline
hotline@theben.de
+49 7474 692-369
Monday to Thursday 7.00 am to 6.00 pm,
Fr 7.00 am to 4.00 pm

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