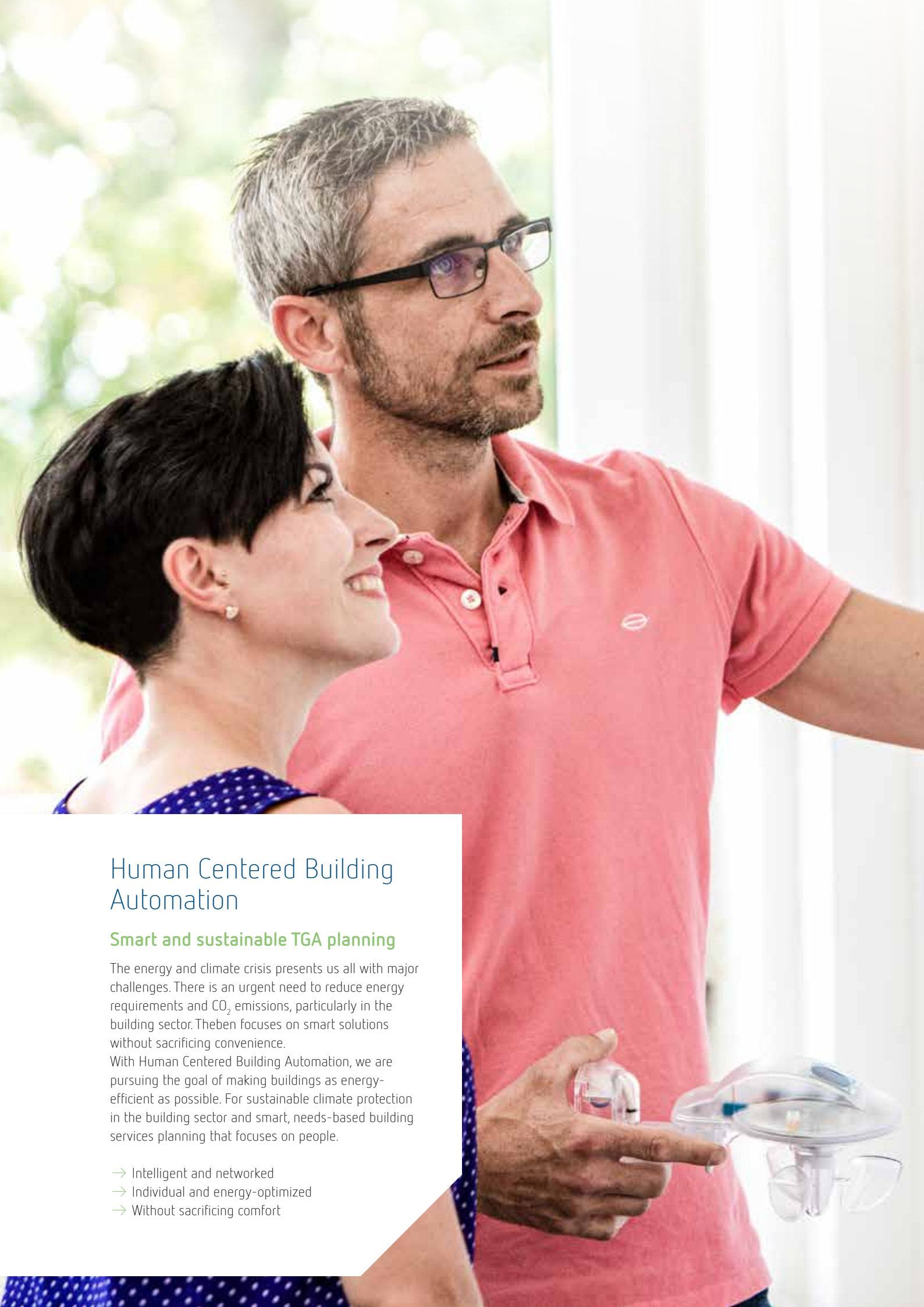


# theben

## Future-proof Intelligent Sustainable



Building Automation since 1921


















## Human Centered Building Automation

### Smart and sustainable TGA planning

The energy and climate crisis presents us all with major challenges. There is an urgent need to reduce energy requirements and CO<sub>2</sub> emissions, particularly in the building sector. Theben focuses on smart solutions without sacrificing convenience.

With Human Centered Building Automation, we are pursuing the goal of making buildings as energy-efficient as possible. For sustainable climate protection in the building sector and smart, needs-based building services planning that focuses on people.

- Intelligent and networked
- Individual and energy-optimized
- Without sacrificing comfort

	Competencies		4
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## Dear customers and partners

we can deliver! As simple as that sounds, it was actually quite complicated to ensure the reliable production of many products in large quantities under difficult economic conditions. The good news: the shortage of components and supply bottlenecks have been overcome and you can once again rely on Theben's usual high delivery performance!

What you can also rely on in any case is our innovative strength. We have developed exciting new products that enable us to meet the growing demands for efficient building automation even better.

For example, **LUXORliving Smart Start (from page 10)** as a radio-based smart home solution that is perfect for retrofitting. Or **RF push-button actuator modules for 55 mm switch ranges (from page 22)**, with which existing LUXORliving installations and native KNX systems can be easily extended. Or our tried-and-tested LUXA 103 detector series, which we now also offer as a **KNX version (from page 24)**. You can find all about this and much more in this catalogue.

**Enjoy the read. We look forward to continuing our trusting collaboration and wish you a successful 2024.**



Michael Matthesius Chief  
Technology Officer



Thomas Sell Chief Sales Officer



Paul Sebastian Schwenk Chief  
Executive Officer

# The full program

## For the intelligent buildings of tomorrow

### Products, solutions and systems



#### Building automation & smart home

Since 1992, more from page 8

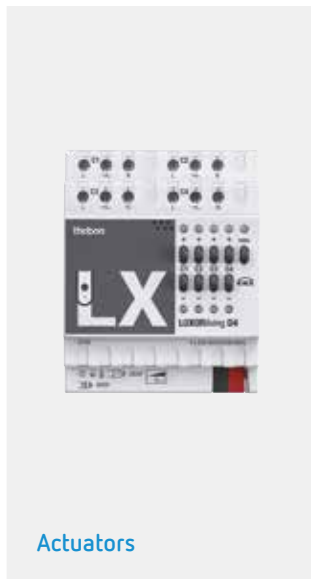


#### Home and building automation

Since 1992, more from page 22



Weather stations



Actuators



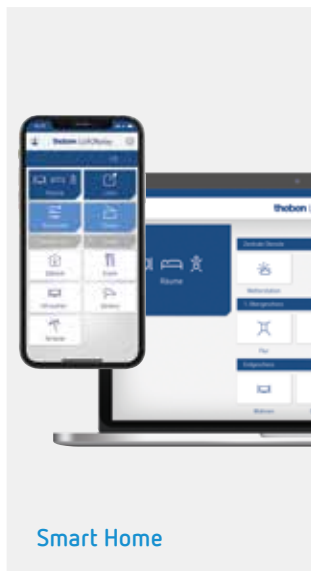
Weather stations



Actuators  
Gateways (KNX, DALI)



Room controller



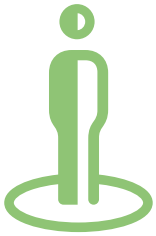
Smart Home



Room controller



Presence detectors  
Motion detectors



## Presence & Motion Detectors, Lighting

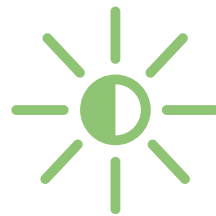
Since 2007, more from page 52



**Motion detectors**  
(230 V, KNX)

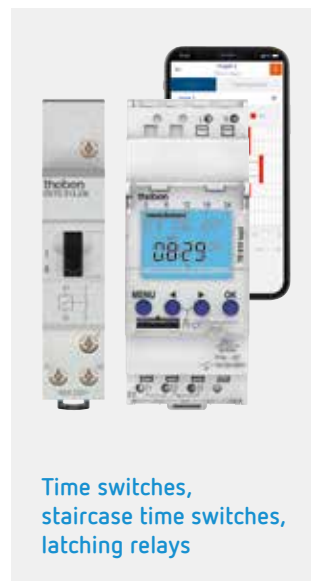


**Presence detectors**  
(230 V, KNX, DALI-2)  
**Presence sensors**  
(DALI-2)

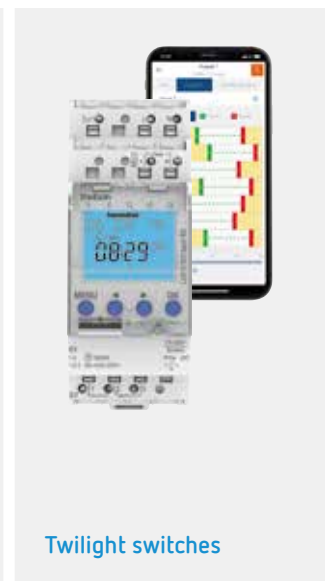


## Time, light & climate control

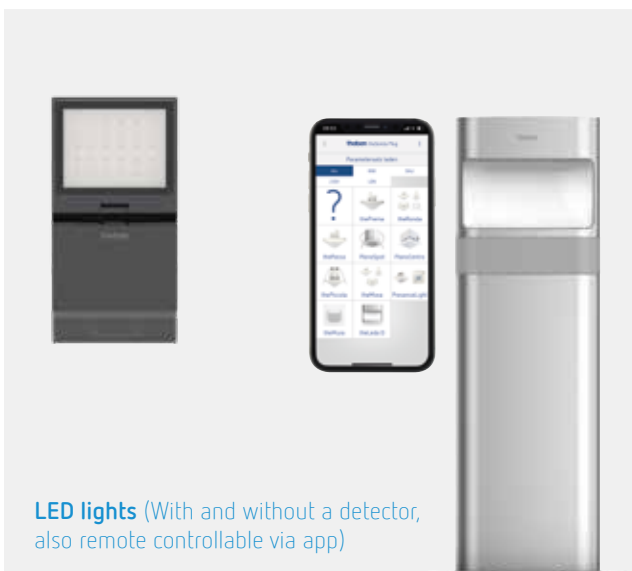
Since 1921, more from page 76



**Time switches,**  
**staircase time switches,**  
**latching relays**



**Twilight switches**



**LED lights** (With and without a detector,  
also remote controllable via app)



**Dimmers**



**Thermostats**  
**CO<sub>2</sub> sensors**



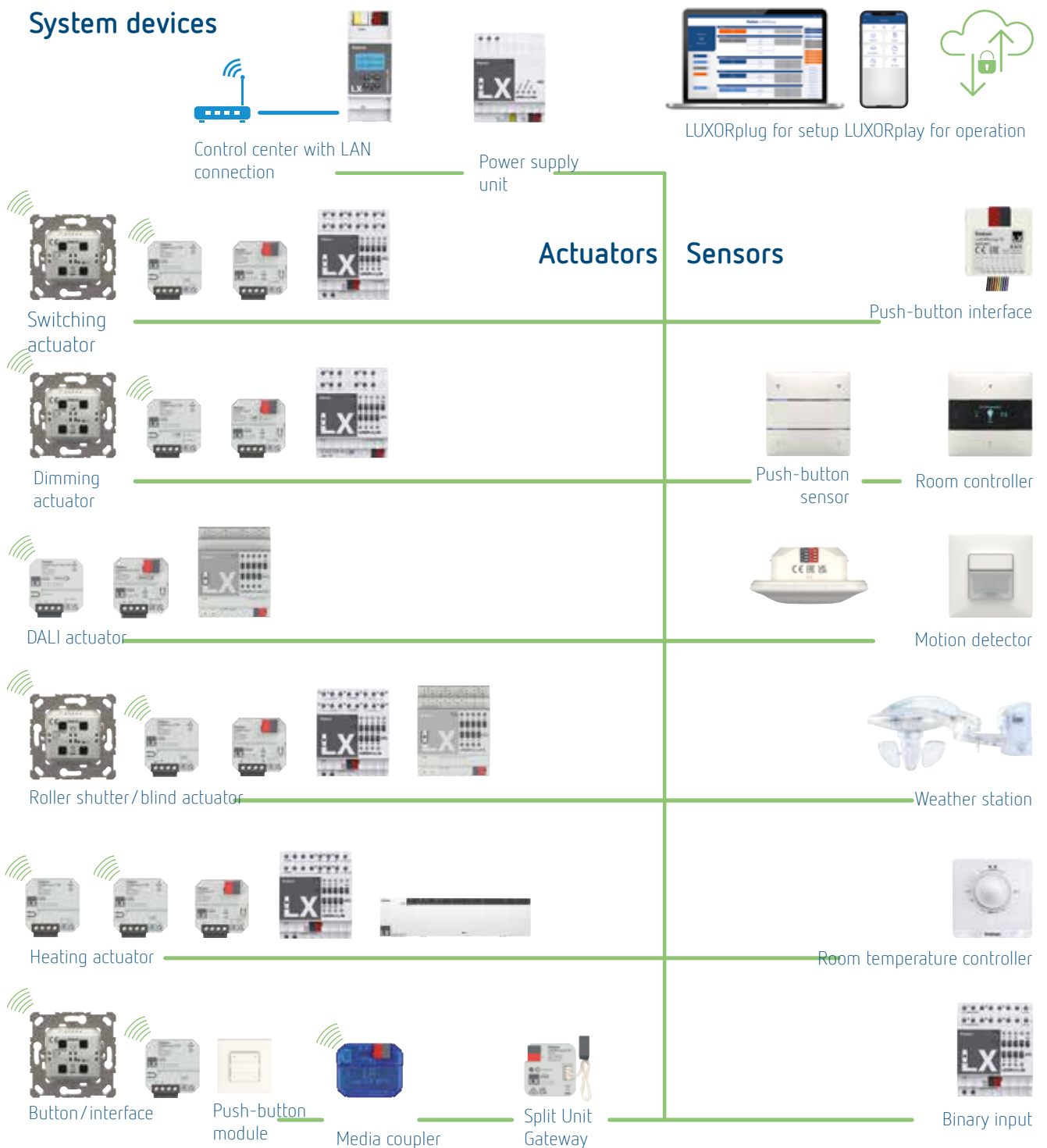
# The choice is yours

## LUXORliving Smart Home

### Wired system

- Wired system with the option of wireless expansion
- Up to 128 TP and 64 RF devices with up to 900 functions can be controlled

#### System devices



# The choice is yours

## LUXORliving Smart Start radio system with IP-RF system center

- Radio system for retrofitting existing buildings without KNX bus cable
- Up to 30 RF devices with up to 30 functions can be controlled.

### System devices



WI-FI

WLAN



LUXORplug for setup LUXORplay for operation



IP-RF system center

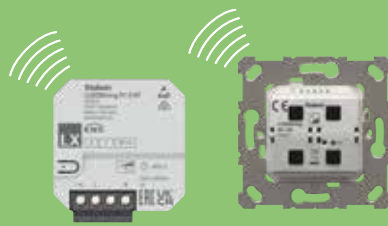
KNX-RF



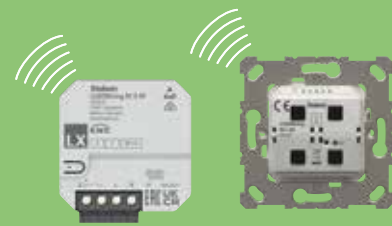
### RF components



DALI actuator



Dimming actuator



Switching actuator



Roller shutter/blind actuator



Heating actuator



Button/interface

# LUXORliving Smart Start

## Retrofitting your smart home made easy

With the growing requirements for sustainable construction, the importance of renovating and retrofitting existing buildings is also increasing. But how can rental apartments, single and multi-family homes, classrooms, stores or offices be retrofitted with KNX-based smart home functions if no KNX cable has been laid? And with as little effort as possible? LUXORliving Smart Start makes it possible!

### Lots of smarter advantages

LUXORliving Smart Start is the radio-based complete solution for the smart home with all the functions you really need today and in the future. Without KNX bus. Without control center and power supply in the distributor. Without media coupler. And above all: without ETS. Getting into the smart home can be so simple and future-proof.



#### Completely flexible

Practical system center as room controller, can be used with push-button actuator modules or flush-mounted RF actuators for switching, dimming, blinds



#### 30 functions

Switching, dimming, drives, climate, scenes, groups, central OFF, panic function, window contacts, time control, astro function and much more.



#### Radio-based

Standardized radio protocol KNX RF1.R



#### Setup without ETS

Simply via LUXORplug Windows software





### Convenient operable

Via system center, push-button, LUXORplay app and voice. Remote control via Theben Cloud possible



### Flexibly expandable

Integration of Amazon Alexa, Google Assistant, IFTTT and much more.



### Cost-effective

Without system devices such as power supply and media couplers and without an ETS license, costs can be significantly reduced



### Future-proof

KNX-based solution, later integration into wired system possible



### Safe

Tamper-proof radio communication with KNX Data Secure













### Quick mountable












Significant time savings thanks to flat push-button actuator modules instead of conventional wireless flush-mounted actuators and push-buttons

# Home and building automation

## Smart Home System LUXORliving

Function	Type	Page	
<b>LUXORliving sets</b>			
	LUXORliving sets	LUXORliving Set 1	14
		LUXORliving Set 2	14
		LUXORliving Set 3	14
		LUXORliving Set 4	14
<b>LUXORliving IP-RF control center Smart Start</b>			
	Control center	LUXORliving IP-RF	14
<b>LUXORliving system center</b>			
	System center	LUXORliving IP1	14
<b>LUXORliving power supply</b>			
	Power supply	LUXORliving P640	14
<b>LUXORliving actuators DIN rail</b>			
	Switching actuators	LUXORliving S4 / LUXORliving S8 / LUXORliving S16	15
	Dimming actuators	LUXORliving D2 / LUXORliving D4	15
	DALI actuators	LUXORliving D4 DALI	15
	Blinds actuators	LUXORliving J4 / LUXORliving J8 / LUXORliving J4-6	15
	Heating actuators	LUXORliving H6	16
<b>LUXORliving heating actuator heating circuit distributor</b>			
	Heating and climate control	LUXORliving H6 24V	16
<b>LUXORliving actuators UP</b>			
	Switching actuators	LUXORliving S1 / LUXORliving S1 S RF	16
	Dimming actuators	LUXORliving D1 / LUXORliving D1 S RF	17
	DALI actuators	LUXORliving D1 DALI / LUXORliving D1 DALI S RF	17
	Blinds actuators	LUXORliving J1 / LUXORliving J1 S RF	17
	Heating actuators	LUXORliving H1 / LUXORliving H1 S RF	17
	Heating actuators for electric heaters	LUXORliving E1 / LUXORliving E1 S RF	18
<b>LUXORliving flush-mounted radio push-button interface</b>			
	System devices	LUXORliving T4 S RF	18
<b>LUXORliving media coupler</b>			
	System devices	LUXORliving RF1	18
<b>LUXORliving push-button actuator modules</b>			
	Switching actuators	LUXORliving PS 1 RF	18
	Dimming actuators	LUXORliving PD 1 RF	18
	Blinds actuators	LUXORliving PJ 1 RF	18
	Button	LUXORliving PB 4 RF	18



Function	Type	Page	
<b>LUXORliving Split Unit Gateway</b>			
 Split Unit Gateway	LUXORliving AC IR1	19	
<b>LUXORliving BI360</b>			
 Motion detector ceiling	LUXORliving BI360 WH	19	
<b>LUXORliving motion detector wall mounting</b>			
 Motion detector wall	LUXORliving BI180 WH	19	
<b>LUXORliving push-button sensors/room controllers</b>			
	Push-button sensors	LUXORliving iON2	19
		LUXORliving iON4	19
 Room controller	LUXORliving iON8	20	
<b>LUXORliving binary input DIN rail</b>			
 Binary input	LUXORliving B6	20	
<b>LUXORliving binary inputs/button interfaces</b>			
	Binary input/button interface	LUXORliving T2	20
		LUXORliving T4	20
		LUXORliving T8	20
<b>LUXORliving temperature controller</b>			
 Heating and climate control	LUXORliving R718	20	
<b>LUXORliving weather station</b>			
 Weather station	LUXORliving M140	21	
<b>LUXORliving weather sensor</b>			
 Weather sensor	LUXORliving M100	21	
<b>LUXORliving weather center</b>			
 Weather center	LUXORliving M130	21	



# Home and building automation

## Smart Home System LUXORliving

### LUXORliving sets



- LUXORliving package drives, consisting of: LUXORliving IP1 system center, LUXORliving P640 power supply, LUXORliving M140 weather station, LUXORliving J8 blind actuator, 2x LUXORliving T4 push-button interface
- LUXORliving lighting package, consisting of: LUXORliving IP1 system center, LUXORliving P640 power supply, LUXORliving S8 switching actuator, LUXORliving D4 dimming actuator, 2x LUXORliving T4 push-button interface
- LUXORliving package for drives and lighting, consisting of:

- System center LUXORliving IP1, power supply LUXORliving P640, weather station LUXORliving M140, switch actuator LUXORliving S8, dimming actuator LUXORliving D4, blind actuator LUXORliving J8, 4x push-button interface LUXORliving T4
- LUXORliving basic drives package, consisting of: LUXORliving IP1 system center, LUXORliving P640 power supply, LUXORliving J8 blind actuator, 4x LUXORliving T4 push-button interface

Type	Art.-No.	SD	CD
LUXORliving set drives	4990010	-	-
LUXORliving lighting set	4990011	-	-
LUXORliving set drives+lighting	4990012	-	-
LUXORliving Set drives basic	4990013	-	-

### LUXORliving control center IP-RF



- Control center for LUXORliving Smart Start and room controller for 30 functions
- WLAN interface for communication with LUXORplug commissioning software and LUXORplay operating app
- KNX-RF interface for controlling the LUXORliving radio actuators or push-button actuator modules
- The KNX radio system LUXORliving Smart Start requires no system devices such as media couplers or power supply in the distributor and, above all, no ETS
- Up to 30 wireless actuators or push-button actuator modules can be integrated

- Available functions: Switching, dimming (also DALI), blind control, room climate control
- Integrated timer with astro function
- Encrypted communication in the system (KNX Data Secure)
- Remote control optionally possible via the secure Theben Cloud
- Possibility of integration with Amazon Alexa, Google Home and IFTTT via Theben Cloud

Type	Art.-No.	SD	CD
LUXORliving IP-RF	4800000*	136	150

\* Available from May 2024

### LUXORliving system center IP1



- LUXORliving system center
- With Ethernet and bus interface
- For commissioning the LUXORliving system via LUXORplug software
- Storage of project data for visualization via the LUXORplay app
- Up to 128 wired devices and 64 wireless components (media coupler required) can be integrated

- A maximum of 900 functions can be controlled (depending on the function type used)
- Remote control optionally possible via the secure Theben Cloud
- Possibility of integration with Amazon Alexa, Google Home and IFTTT via Theben Cloud

Type	Art.-No.	SD	CD
LUXORliving IP1	4800495	136	-

### LUXORliving power supply



- Power supply 640 mA LUXORliving
- 30 V DC Auxiliary voltage
- Power supply and monitoring of the system voltage

Type	Art.-No.	SD	CD
LUXORliving P640	4800990	136	-

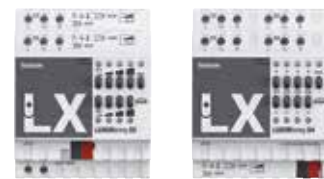
## LUXORliving switch actuators DIN rail



- LUXORliving switching actuator
- LED switching status display for each channel
- Manual operation on the device (also without bus voltage)
- Switching functions: e.g. on/off, pulse, on/off delay, staircase lighting with pre-warning

Number of channels	LED lamp	Width	Type	Art.-No.	SD	CD
4	600 W	4 modules	LUXORliving S4	4800420	136	150
8	600 W	4 modules	LUXORliving S8	4800425	136	150
16	600 W	8 modules	LUXORliving S16	4800429	136	150

## LUXORliving dimming actuators DIN rail



- LUXORliving dimming actuator
- For dimmable LED, incandescent and halogen lamps, energy-saving lamps and dimmable transformers
- Simple adaptation to different light sources thanks to automatic load detection
- Optimized for dimmable retrofit LED lamps
- LED switching status display for each channel
- Manual operation on the device

Number of channels	LED lamp (RC mode)	Width	Type	Art.-No.	SD	CD
2	400 W	4 modules	LUXORliving D2	4800470	136	150
4	200 W	4 modules	LUXORliving D4	4800475	136	150

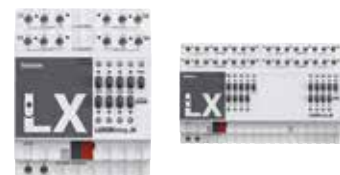
## LUXORliving DALI actuator DIN rail



- 4-way DALI actuator LUXORliving, DALI-2-certified
- Interface between bus system and DALI lighting system (Digital Addressable Lighting Interface)
- For controlling up to 30 DALI operating devices per channel via broadcast commands
- Enables very simple commissioning without the effort of addressing or grouping on the DALI side
- Simple replacement of the DALI control gear without further programming, even in the event of a fault
- Internal DALI power supply with 60 mA output current per channel
- In addition to the classic functions such as switching, dimming and scenes, the DALI actuator also offers the option of colour and colour temperature control (device type 8)

Type	Art.-No.	SD	CD
LUXORliving D4 DALI	4800300	136	150

## LUXORliving blinds actuators DIN rail



- Blinds actuator LUXORliving
- For controlling drives for blinds, roller shutters, sun and privacy protection devices
- Manual operation on the device (also without bus voltage)
- LED switching status display up and down for each channel

Number of channels	Width	Type	Art.-No.	SD	CD
4	4 modules	LUXORliving J4	4800450	136	150
8	8 modules	LUXORliving J8	4800455	136	151

# Home and building automation

## Smart Home System LUXORliving

### LUXORliving blinds actuator DIN rail



- 4-way blinds actuator LUXORliving
- With integrated inputs for the push-buttons, as a replacement for drive control of the LUXOR home comfort control system
- Enables existing LUXOR customers to easily switch to LUXORliving
- For controlling drives for blinds, roller shutters, sun and privacy protection devices
- Manual operation on the device (also without bus voltage)
- LED switching status display up and down for each channel
- Has 8 relay outputs for 4 drives (up/down), 4 inputs for individual operation of the drives (230V), 2 inputs for central and group operation (230V)
- The relay outputs are not potential-free or potential-independent, but are fed by the supply voltage
- This means that all drives connected to the actuator are controlled via the same phase. Please note the following when switching from LUXOR to LUXORliving

Number of channels	Width	Type	Art.-No.	SD	CD
4	4 modules	LUXORliving J4-6	4800451	136	151

### LUXORliving heating actuator DIN rail



- 6-way heating actuator LUXORliving
- For controlling 6 thermal actuators 24-240 V AC in 2 groups, each with 3 outputs and 450 mA
- Valve protection
- LED switching status display for each channel
- Manual operation on the device
- Optional ALPHA 5 230 V (9070440) and ALPHA 5 24 V (9070441) actuators see page 127

Number of channels	Width	Type	Art.-No.	SD	CD
6	4 modules	LUXORliving H6	4800440	136	151

### LUXORliving heating actuator heating circuit distributor



- LUXORliving heating actuator for controlling thermal actuators
- Control of the actuators selectable by channel: switching 24 V DC or continuous 0-10 V DC
- Integrated relay for demand-led control of the heating circuit pump
- Installation directly in the heating circuit manifold
- Screwless plug-in terminal technology
- Integrated power supply for max. 12 thermal actuators
- Continuous or switching actuating variable selectable
- Integrated valve protection
- Manual operation on the device
- Optional actuator ALPHA 5 24 V (9070441) see page 127

Number of channels	Width	Type	Art.-No.	SD	CD
6	290 mm	LUXORliving H6 24V	4800441	136	151

### LUXORliving switch actuators



- 1-way flush-mounted switching actuator LUXORliving
- Secure commissioning and communication through encryption (RF)
- Easy installation thanks to particularly compact housing
- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496 - see page 126/127)
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)
- Adjustable properties: normally closed / normally open, switching, delay, pulse function

Number of channels	LED lamp	Function	Type	Art.-No.	SD	CD
1	600 W	Flush-mounted actuator TP	LUXORliving S1	4800520	136	151
1	600 W	Flush-mounted actuator RF (wireless)	LUXORliving S1 S RF	4800621	137	151





## LUXORliving dimming actuators



- 1-way universal dimming actuator flush-mounted LUXORliving
- Optimized dimming output for dimmable energy-saving lamps, LEDs, incandescent and halogen lamps and dimmable transformers
- Simple adaptation to different light sources thanks to automatic load detection
- Secure commissioning and communication through encryption (RF)

- Easy installation thanks to particularly compact housing
- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496 - see page 126/127)
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works

Number of channels	LED lamp (RC mode)	Function	Type	Art.-No.	SD	CD
1	250 W	Flush-mounted actuator TP	LUXORliving D1	4800570	136	151
1	250 W	Flush-mounted actuator RF (wireless)	LUXORliving D1 S F	4800671	137	151

## LUXORliving DALI actuators



- 1-way DALI actuator flush-mounted LUXORliving
- DALI-2 certified
- Interface between the DALI and the KNX bus system
- Simple commissioning of up to 30 ECGs in broadcast mode
- Control of RGB, RGBW, Tunable White or conventional luminaires
- DT-8 luminaire support
- Easy replacement of ECGs in the event of a fault
- Universal mounting thanks to the compact housing
- Secure commissioning and communication through encryption (RF)

- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496 - see page 126/127)
- The binary inputs are assigned to the output ex works
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload

Number of channels	Function	Type	Art.-No.	SD	CD
1	Flush-mounted actuator TP	LUXORliving D1 DALI	4800580	136	151
1	Flush-mounted actuator RF (wireless)	LUXORliving D1 DALI S RF	4800681	137	151

## LUXORliving blind actuators



- 1-way blind actuator flush-mounted LUXORliving
- For controlling drives for blinds, roller shutters, sun and privacy protection devices, roof hatches and ventilation flaps
- Secure commissioning and communication through encryption (RF)
- Easy installation thanks to particularly compact housing

- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496 - see page 126/127)
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	Function	Type	Art.-No.	SD	CD
1	Flush-mounted actuator TP	LUXORliving J1	4800550	136	152
1	Flush-mounted actuator RF (wireless)	LUXORliving J1 S RF	4800651	137	152

## LUXORliving heating actuators



- 1-way heating actuator flush-mounted LUXORliving
- Silent control of thermal actuators 230 V AC
- Integrated temperature controller for heating/cooling
- Valve protection function
- Secure commissioning and communication through encryption (RF)
- Easy installation thanks to particularly compact housing

- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496 - see page 126/127)
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)
- Optional actuator ALPHA 5 230 V (9070440) see page 127

Number of channels	Function	Type	Art.-No.	SD	CD
1	Flush-mounted actuator TP	LUXORliving H1	4800540	136	153
1	Flush-mounted actuator RF (wireless)	LUXORliving H1 S RF	4800641	137	153

# Home and building automation

## Smart Home System LUXORliving

### LUXORliving actuators for electric heaters



- 1-way flush-mounted actuator for electric heaters LUXORliving
- For direct connection of electric heaters with high switching capacity
- Integrated temperature controller for heating/cooling
- Temperature controller can also be configured as an additional stage
- Secure commissioning and communication through encryption (RF)

- Easy installation thanks to particularly compact housing
- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496 - see page 126/127)
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	Function	Type	Art.-No.	SD	CD
1	Flush-mounted actuator TP	LUXORliving E1	4800542	136	152
1	Flush-mounted actuator RF (wireless)	LUXORliving E1 S RF	4800642	137	152

### LUXORliving flush-mounted radio push-button interface



- 4-way wireless push-button interface flush-mounted
- Secure commissioning and communication through encryption
- 4 binary inputs for potential-free push-buttons and signal contacts
- 1 additional input for temperature sensor (accessories 9070321,9070459,9070496 - see page 126/127)

- Free assignment of the functions switching, dimming, blinds, temperature measurement and transmission
- Easy installation thanks to particularly compact housing
- Can be used with 4-way push-button module

Number of channels	Type	Art.-No.	SD	CD
4	LUXORliving T4 S RF	4800614	137	153

### LUXORliving media coupler



- Connects LUXORliving RF devices of a radio line to the twisted pair bus
- The power is supplied via KNX bus voltage
- Secure commissioning and communication through encryption

- Ranges of max. 30 m within the building are possible
- Has a repeater function, i.e. received telegrams are sent again to increase the range

Type	Art.-No.	SD	CD
LUXORliving RF1	4800868	137	152

### LUXORliving push-button/actuator modules



- LUXORliving push-button/actuator modules for various functions (operating, switching, dimming, blinds), Wireless
- 4 touch points
- Can be used universally in many 55 mm switch programs
- Quick and easy conversion of conventional installations
- 1-way or 2-way rockers required as separate accessories, article numbers 9080026, 9080027, see page 128)

- Safe commissioning and communication through
- Support for KNX Data Secure
- LUXORliving PB 4 RF: Integrated temperature sensor

Number of channels	Type	LED lamp	Type	Art.-No.	SD	CD
1	Flush-mounted switching actuator RF with 4 touch points	600 W	LUXORliving PS 1 RF	4800625*	137	152
1	Flush-mounted blind actuator RF with 4 touch points	-	LUXORliving PJ 1 RF	4800655*	137	152
1	Flush-mounted dimming actuator RF with 4 touch points	250 W (RC mode)	LUXORliving PD 1 RF	4800675*	137	152
1	Flush-mounted push-button RF with 4 touch points	-	LUXORliving PB 4 RF	4800615*	137	-

\* Available from May 2024



## LUXORliving Split Unit Gateway



- Easy to set up split unit gateway LUXORliving with large database of split unit devices
- Over 500 different split unit devices/remote controls are currently available in the database and can be controlled via LUXORliving
- The database is DIN regularly expanded

Type	Art.-No.	SD	CD
LUXORliving AC IR1	4800320	137	-

## LUXORliving motion detector ceiling mounting



- Motion detector (PIR) for ceiling mounting indoors
- Circular detection area 360°, Ø 12 m (113 m<sup>2</sup>) at 3 m mounting height
- Mixed light measurement
- Integrated temperature sensor
- Extension of the Detection areas through parallel connection
- Adjustable sensitivity
- Surface mounting possible with accessories (9080019, 9080020, 9080021 - see page 120)

Mounting type	Colour	Type	Art.-No.	SD	CD	DA
Flush-mounted ceiling installation	White	LUXORliving BI360 WH	4800355	138	-	132

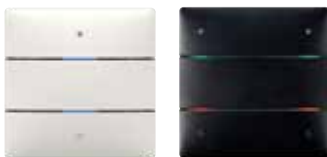
## LUXORliving motion detector wall mounting



- Motion detector (PIR) for indoor wall mounting
- Rectangular detection area 170°, 14 x 17 m (238 m<sup>2</sup>) at 1.2 m mounting height
- Mixed light measurement
- Integrated temperature sensor
- Integrated push-button
- Extension of the Detection areas through parallel connection
- Adjustable sensitivity
- With Theben cover frame
- Also suitable for many common switch ranges (with accessories)

Mounting type	Colour	Type	Art.-No.	SD	CD	DA
Flush wall mounting	White	LUXORliving BI180 WH	4800350	137	-	130

## LUXORliving push-button sensors



- Push-button sensor with integrated temperature sensor
- Control of the switching, dimming, blinds and scene functions in the LUXORliving system
- Multicolored status LEDs
- Automatic brightness control of the status LEDs depending on the ambient brightness
- Integrated temperature sensor for room temperature control with LUXORliving heating actuators
- Vertical mounting of two iON push-button sensors on standard double box possible with accessories (standard combination distance 71 mm)
- Transparent cover for individual labeling included in the scope of delivery
- Surface mounting possible with separate accessories (9080024/9080025 - see page 128)

Colour	Keys	Type	Art.-No.	SD	CD
White, similar to RAL 9016	2 buttons, 2 status LEDs	LUXORliving iON2	4800412	137	-
	4 buttons, 2 status LEDs	LUXORliving iON4	4800414	137	-
Black, similar to RAL 9005	2 buttons, 2 status LEDs	LUXORliving iON2 BK	4801412	137	-
	4 buttons, 2 status LEDs	LUXORliving iON4 BK	4801414	137	-
Silver, similar to RAL 9006	2 buttons, 2 status LEDs	LUXORliving iON2 SR	4802412	137	-
	4 buttons, 2 status LEDs	LUXORliving iON4 SR	4802414	137	-

# Home and building automation

## Smart Home System LUXORliving

### LUXORliving room controller



- Room controller with integrated room temperature controller
- LC display for displaying functions, icons and values
- 10 freely parameterizable functions
- Display of various icons for the respective functions
- Control of the functions switching, dimming, blinds, scene, temperature control
- Automatic brightness control of the display depending on the ambient brightness
- Vertical mounting of two iON push-button sensors on standard double box possible with accessories (standard combination distance 71 mm)
- Surface mounting possible with separate accessories (9080024/9080025 - see page 128)

Colour	Type	Art.-No.	SD	CD
White, similar to RAL 9016	LUXORliving iON8	4800418	137	-
Black, similar to RAL 9005	LUXORliving iON8 BK	4801418	137	-
Silver, similar to RAL 9006	LUXORliving iON8 SR	4802418	137	-

### LUXORliving binary input DIN rail



- 6-way binary input LUXORliving
- 6 potential-free universal and wide-range voltage inputs (10-240 V AC/DC or internally generated auxiliary voltage of approx. 12 V DC)
- Software functions: Switch/button, dimming, blinds
- LED switching status display for each channel
- Manual operation on the device

Number of channels	Width	Type	Art.-No.	SD	CD
6	4 modules	LUXORliving B6	4800430	136	153

### LUXORliving binary inputs/button interfaces



- Binary input/push-button interface LUXORliving
- Can be installed in flush-mounted boxes with conventional push-buttons/switches
- Software functions: Switch/button, dimming, blinds
- Identification of the wire pairs via colour coding
- Connectable cable length up to 30 m
- LUXORliving T4/T8: 2 NTC inputs for temperature detection (with accessories 9070321,9070459,9070496 - see page 126/127)

Number of channels	Type	Art.-No.	SD	CD
2	LUXORliving T2	4800402	138	153
4	LUXORliving T4	4800404	138	153
8	LUXORliving T8	4800408	138	153

### LUXORliving temperature controller



- Individual room temperature controller LUXORliving
- Setting range 5 - 30°C
- Possible applications: Heating via radiator or underfloor heating, heating and cooling e.g. radiator and cooling ceiling
- Integrated 4-way push-button interface

Type	Art.-No.	SD	CD
LUXORliving R718	4800480	138	153



## LUXORliving weather station



- Combination sensor / weather station LUXORliving
- For detecting wind, rain, brightness and temperature
- Rain sensor with heating
- For fully automatic blind and sun shading control
- Recording and evaluation directly in the device

- Sun protection for up to four façades thanks to 3 integrated brightness sensors
- Display of weather data e.g. with LUXORliving app "LUXORplay"

Operating voltage	Type	Art.-No.	SD	CD
110-230 V AC	LUXORliving M140	4800490	138	-
24 V DC	LUXORliving M140 24V	4800493	138	-

## LUXORliving weather sensor



- Combination weather sensor for use with the LUXORliving M130 weather station
- Forwarding of measured values to up to 20 LUXORliving M130 weather control centers

- For detecting wind, rain, temperature and brightness (3 directions)
- Rain sensor with heating

Type	Art.-No.	SD	CD
LUXORliving M100	4800491	138	-

## LUXORliving weather center



- Weather center for use with the LUXORliving M100 weather sensor
- Receiving and evaluating the measured values from a LUXORliving M100 weather sensor
- Evaluation of wind, rain, temperature and brightness (3 directions)
- For fully automatic blind and sun shading control

- Sun shading for up to 4 façades
- Display of weather data e.g. with LUXORliving app "LUXORplay"

Type	Art.-No.	SD	CD
LUXORliving M130	4800492	140	-





# Smart Home functions simply retrofitted by radio: With Theben RF push-button/actuator modules

The new RF push-button/actuator modules from Theben combine a KNX RF actuator (dimming, switching, blind control) with a push-button. The devices with an installation depth of just 25.6 mm are compatible with many 55 mm switch ranges and can be easily installed in conventional switch boxes. Thanks to KNX Data Secure, they are optimally protected against data theft and manipulation. Wired KNX and LUXORliving smart home systems can be quickly and easily retrofitted with smart functions in this way.

Theben RF push-button/actuator modules are available in variants for native KNX systems and for the KNX smart home system LUXORliving. They are also used in the complete LUXORliving SmartStart radio system. KNX and LUXORliving RF push-buttons with integrated temperature sensor are also available for retrofit projects.

### Common properties

- Quick installation due to low installation depth of only 25.6 mm
- Simple replacement of conventional switches
- Compatible with many 55 mm switch ranges
- 1-/2-way rockers (incl. retaining frame) available as accessories





# Versatile presence detector Lighting and HVAC control Now also for KNX and LUXORliving



Theben is expanding the LUXA 103 presence detector series for efficient indoor and outdoor lighting and HVAC control with a KNX version. The LUXA 103 S360-12 KNX with circular detection area (360°, Ø 12 m at 3 m mounting height) is ideal for individual and open-plan offices, meeting and storage rooms, cellars and toilets. The LUXA 103 S360-28 KNX with rectangular detection area (360°, 28 x 5 m at 3 m mounting height) acts as a special corridor detector. Both Devices each have 2 light and HVAC channels and 3 logic channels.

The devices are suitable for simple flush-mounted installation, surface-mounted or recessed ceiling installation are also possible with optional accessories. The surface-mounted housings in black, white or gray fit into any interior design. The integrated temperature sensor for HVAC control makes an external sensor superfluous.



LUXA 103 S360-12 KNX UP



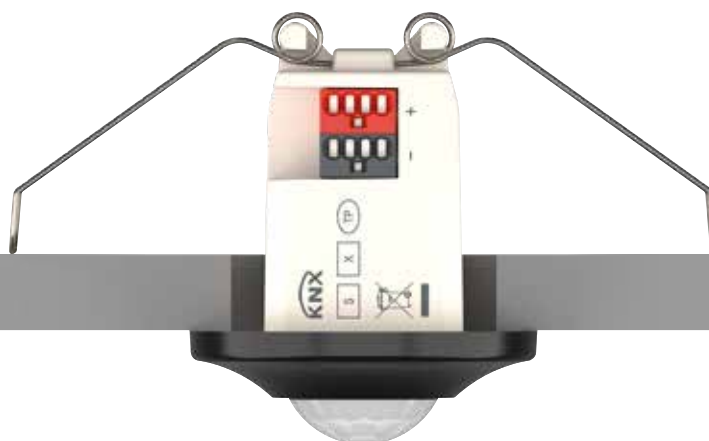
LUXA 103 S360-28 KNX UP

# Added security with KNX Data Secure: thePiccola KNX Mini presence detector



The new generation of thePiccola Mini presence detectors is now also available as KNX versions. KNX Data Secure ensures optimum protection against data theft and manipulation. The electronics have now been integrated into the one-piece device housing. This simplifies ceiling installation considerably, especially in suspended ceilings. The "swarm light" dims the neighboring lights in the room to a desired level, creating a pleasant lighting mood and saving energy at the same time. Two devices in one: thePiccola KNX Mini presence detector is equipped with a temperature sensor, saving the installation of a separate sensor.














thePiccola is available in white, black and special colors on request. This allows the appliances to blend into any interior design.

















# Home and building automation

## KNX

Function	Type	Page
<b>KNX sets</b>		
 KNX sets	KNX Set 1 FIX, KNX Set 2 FIX, KNX Set 3 MIX, KNX Set 4 KNX-RF	28
<b>KNX system devices</b>		
 Power supplies	PS 160 mA T KNX, PS 320 mA T KNX PS 640 mA T KNX PS 1280 mA T KNX	28
 Router/interface/line coupler	IPsecure Router KNX, IPsecure Interface KNX, Interface USB KNX, Line Coupler S KNX	28
<b>KNX ceiling presence detector</b>		
 Presence detector	LUXA 103 KNX, thePiccola KNX, thePrema P360 KNX, thePrema S360 KNX, thePrema P360 KNX AP Multi, PlanoSpot KNX, theRonda P360 KNX, theRonda S360 KNX, theRonda S360 KNX, thePassa P360 KNX	29
<b>Wall-mounted detector theMura KNX</b>		
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<b>KNX outdoor detector theLuxa KNX</b>		
 Motion detector	theLuxa P300 KNX	34
<b>KNX switch actuators DIN rail</b>		
 Switch actuators	RMG 4 U KNX, RME 4 U KNX, RMG 8 S KNX, RME 8 S KNX, RM 4 U KNX, RM 8 S KNX, RM 8 S KNX, RMG 4 I KNX, RME 4 I KNX, RM 8 I KNX, RM 8 I KNX, RM 4 H KNX, RM 8 H KNX, RMG 8 S KNX, RME 8 S KNX, RM 16 T KNX, RM 16 T KNX	34
<b>KNX dimming actuators DIN rail</b>		
 Dimming actuators	DMG 2 T KNX, DME 2 T KNX, DM 4 T KNX, DM 4 T KNX, DMB 1 T KNX, DM 4-2 T KNX, DM 8-2 T KNX	35
<b>KNX switching/dimming actuator DIN rail</b>		
 Switch/dim actuator	SM 4 KNX	36
<b>KNX DALI gateways/actuators</b>		
 Gateways	DALI Gateway P64 KNX, DALI Gateway S64 KNX, DALI Gateway S128 KNX, DM 4 DALI KNX	36
<b>KNX blind actuators DIN rail</b>		
 Blind 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	37
<b>KNX heating actuators</b>		
 Heating actuators, actuators, fan coil actuators	HMG 6 T KNX, HME 6 T KNX, HM 12 T KNX, HM 12 T KNX, HMT 12 S KNX, HMT 6 S KNX, CHEOPS S KNX, FCA 1 KNX, FCA 2 KNX	37
<b>KNX-OpenTherm Gateway</b>		
 Gateways	KNX-OT-Box S	38

Function	Type	Page
<b>KNX Split Unit Gateway</b>		
 Heating and climate control	AC IR1 KNX	39
<b>KNX actuators</b>		
 Switch actuators, dimming actuators, DALI actuators, blind actuators, heating actuators, media couplers	SU 1 KNX, JU 1 KNX, DU 1 KNX, DU 1 DALI KNX, HU 1 KNX, EU 1 KNX, SU 1 RF S KNX, JU 1 RF S KNX, DU 1 RF S KNX, DU 1 DALI S RF KNX, HU 1 RF S KNX, EU 1 S RF KNX, Media coupler TP-RF KNX, TU 4 RF S KNX, AC IR1 KNX,	39
<b>KNX flush-mounted push-button/actuator modules</b>		
 Push-button actuator modules	PS 1 RF KNX, PD 1 RF KNX, PJ 1 RF KNX, PB 4 RF KNX	41
<b>KNX binary inputs DIN rail</b>		
 Binary inputs	BMG 6 T KNX, BME 6 T KNX, BM 6 T KNX, BM 12 T KNX	41
<b>KNX binary inputs/flush-mounted push-button interfaces</b>		
 Binary inputs	TA 2 S KNX, TA 4 S KNX TA 6 S KNX, TA 8 S KNX	41
<b>KNX push-button sensors/room controller</b>		
 iON KNX	iON KNX	42
<b>KNX multifunction display</b>		
 VARIA 826 S KNX	VARIA 826 S KNX	42
<b>KNX room air sensor, individual room temperature controller</b>		
 Heating and climate control	AMUN 716 S KNX, RAMSES 718 P KNX RAMSES 718 S KNX	43
<b>KNX weather station</b>		
 Weather station, brightness sensors	Meteodata KNX	43
<b>KNX brightness/temperature sensor, twilight switch</b>		
 Weather station, brightness sensors	LUNA 131 S KNX, LUNA 133 KNX, LUNA 134 KNX	44
<b>KNX time switches</b>		
 Digital time switches	TR 648 top2 RC-DCF KNX, TR 648 top2 RC KNX	44
<b>KNX indoor clocks</b>		
 Display units	OSIRIA KNX	45



# Home and building automation

## KNX

### KNX sets



- KNX Set 1 FIX, consisting of: PS 640 mA T KNX power supply, DM 4-2 T KNX dimming actuator, TA 4 S KNX push-button interface
- KNX Set 2 FIX, consisting of: Power supply PS 640 mA T KNX, dimming actuator DM 8-2 T KNX, switching/shutter actuator RM 8 T KNX, push-button interface TA 8 S KNX, 2 x push-button interface TA 4 S KNX
- KNX Set 3 MIX, consisting of: Power supply PS 640 mA T KNX, switching/shutter actuator RMG 8 T KNX, 2 x dimming actuator DME 2 T KNX, 2 x push-button interface TA 4 S KNX
- KNX Set 4 KNX-RF, consisting of: Power supply PS 640 mA T KNX, flush-mounted media coupler TP-RF KNX, flush-mounted switching actuator SU 1 RF KNX, flush-mounted blind actuator JU 1 RF KNX, flush-mounted dimming actuator DU 1 RF KNX

Type	Art.-No.	SD	CD
KNX Set 1 FIX	4990201	-	-
KNX Set 2 FIX	4990202	-	-
KNX Set 3 MIX	4990203	-	-
KNX Set 4 KNX-RF	4990204	-	-

### KNX power supplies



- KNX power supplies
- 30 V DC Auxiliary voltage
- Power supply and monitoring of the KNX system voltage
- Reset button for 20 sec. Bus reset
- Continuous short-circuit proof

KNX rated current	Width	Auxiliary voltage (AUX)	Type	Art.-No.	SD	CD
160 mA	4 modules	✓	PS 160 mA T KNX	9070956	138	-
320 mA	4 modules	✓	PS 320 mA T KNX	9070957	138	-
640 mA	4 modules	✓	PS 640 mA T KNX	9070958	138	-
1280 mA	4 modules	✓	PS 1280 mA T KNX	9070959	138	-

### KNX overvoltage protection



- Surge arrester in the form of a KNX Bus Terminal
- As surge protection in KNX or LUXORliving systems

Type	Art.-No.	SD	CD
US 1 KNX	9070848	-	-

### KNX router/interface IP/KNX



- IPsecure Router KNX
- Router/interface/line coupler IP and KNX
- For data exchange between KNX and IP networks
- Support for KNX IP Secure
- Complies with the specifications of the KNXnet/IP standard
- Complete filter table for all main groups (0...31)
- Display of power failures on the bus (KNX IP Service)
- Unicast: Up to 10 devices can communicate via unicast
- Tunneling: 5 tunneling servers available (visualization, app...)
- Firmware update possible (Theben IP Tool software)
- Power supply: 12-30 V DC/PoE - IEEE 802.3af class 1
- IPsecure Interface KNX
- IP and KNX interface
- Support for KNX IP Secure
- Complies with the specifications of the KNXnet/IP standard
- Tunneling: 5 tunneling servers available (visualization, app...)
- Firmware update possible (Theben IP Tool software)
- Power supply: 12-30 V DC/
- PoE - IEEE 802.3af class 1

Type	Art.-No.	SD	CD
IPsecure Router KNX	9070770	138	-
IPsecure Interface KNX	9070771	138	-

KNX interface/line coupler USB/KNX



- **Interface USB KNX**
- For communication between the PC and the KNX system to be programmed
- Fast download of applications through support of extended frames (from ETS 5)
- Support for KNX Data Secure
- Communication
- **Line coupler S KNX**
- For the connection of KNX lines or areas
- Galvanic separation of the lines/areas
- Support of extended frames (from ETS 5)
- Support for KNX Data Secure communication
- Telegrams can be forwarded, filtered or blocked
- Can also be used as a line amplifier (repeater)

Type	Art.-No.	SD	CD
Interface USB KNX	9070397	138	-
Line coupler S KNX	9070880	138	-

Presence detector LUXA 103 S360-12 KNX flush-mounted



- Presence detector (PIR) for flush-mounted ceiling installation indoors
- 360° circular detection area, Ø 12 m (113m<sup>2</sup>) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Integrated temperature sensor
- Day / night switchover via telegram
- Stand-by functionality (orientation light)
- 3 logic channels (AND/OR/XOR)
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through parallel connection
- Detection sensitivity adjustable for outdoor use
- Test operation to check function and detection area
- Setting via ETS software (full range of functions)
- Setting via remote control/APP or APP (BLE)

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling flush-mounted	113 m <sup>2</sup> (Ø 12 m   360°)	2 x light   2 x presence	White	LUXA 103 S360-12 KNX UP WH	1039052	138	132

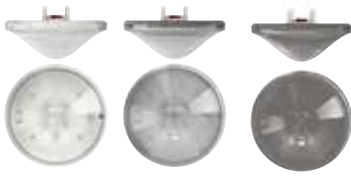
Corridor presence detector LUXA 103 S360-28 KNX flush-mounted



- Presence detector (PIR) for flush-mounted ceiling installation indoors
- Rectangular detection area 360°, 28 x 5 m (140m<sup>2</sup>) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Integrated temperature sensor
- Day / night switchover via telegram
- Stand-by functionality (orientation light)
- 3 logic channels (AND/OR/XOR)
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through parallel connection
- Detection sensitivity adjustable for outdoor use
- Test operation to check function and detection area
- Setting via ETS software (full range of functions)
- Setting via remote control/APP or APP (BLE)

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling flush-mounted	150 m <sup>2</sup> (30,0 x 5 m)	2 x light   2 x presence	White	LUXA 103 S360-28 KNX UP	1039072	138	132

### KNX presence detector thePrema



- Passive infrared presence detector for flush-mounted ceiling installation
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- Simple adjustment of the brightness measurement
- Self-learning follow-up time, short-term presence
- Selectable control speed
- Teach-in function, scene functionality
- Locking functions
- 2 channels presence without brightness influence
- Switch-on delay and run-on time presence adjustable
- 1 channel room monitoring without brightness influence, reduced detection sensitivity
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Can be extended to recessed ceiling and surface-mounted with accessories
- Setting via ETS software (full range of functions)
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling flush-mounted	81 m <sup>2</sup> (9,0 x 9,0 m)	3 x light   2 x presence (3 light measurements)	White	thePrema P360 KNX UP WH	2079000	139	130
			Gray	thePrema P360 KNX UP GR	2079001	139	130
			Black	thePrema P360 KNX UP BK	2079002	139	130
	49 m <sup>2</sup> (7,0 x 7,0 m)	2 x light   2 x presence (1 light measurement)	White	thePrema S360 KNX UP WH	2079500	139	130
			Gray	thePrema S360 KNX UP GR	2079501	139	130
			Black	thePrema S360 KNX UP BK	2079502	139	130

Other colors available on request!

### KNX presence detector thePrema Multi



- KNX multisensor, consisting of:
- KNX passive infrared presence detector
- KNX room air sensor (= 2 bus devices)
- Room air sensor functions:
- Measures the CO<sub>2</sub> concentration, relative humidity, temperature and air pressure
- Three independent parameterizable thresholds for CO<sub>2</sub> concentration and relative humidity
- Integrated room temperature controller
- 4 binary inputs
- Presence detector functions:
- Square detection area 360°, 9x9 m (81 m<sup>2</sup>) at 3 m mounting height
- For KNX bus system, 3 channels light and 2 channels presence for HVAC control
- 2 channels light C1, C2 with 2 light measurements and additional light channel C3 without brightness influence
- 2 presence channels individually adjustable
- Adaptive 3-channel light measurement
- Mixed light measurement suitable for LEDs, fluorescent lamps (FL/PL/ESL), halogen and incandescent lamps
- Operation as fully or semi-automatic, switchable
- Operation Switching or constant light control with standby functionality
- Dimmable lighting in switching mode with stand-by functionality
- Brightness switching value or setpoint adjustable in lux via parameter, object or remote control
- Teach-in of the brightness switching value or setpoint value
- Setting the room correction factor for brightness measurement adjustment
- Light delay time adjustable via parameter, object or remote control
- Switch-on delay and run-on time presence adjustable
- Detection sensitivity adjustable
- Self-learning run-on time
- Shortening the follow-up time for short presence (short presence)
- Scene functionality
- Extremely easy to set the energy-saving behavior with the new "eco plus" function
- Test operation to check function and detection area
- Parallel connection of several detectors in master/slave or master/master possible
- User remote control and management remote control (optional)
- Room monitoring

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling-mounted	81 m <sup>2</sup> (9,0 x 9,0 m)	3 x light   2 x presence   CO <sub>2</sub>   humidity   temperature   air pressure	White	thePrema P360 KNX AP Multi WH	2079900	139	130
-	-	CO <sub>2</sub>   Humidity   Temperature   Air pressure	White	Set basic KNX AP Multi WH*	9070900	-	-

\* Retrofit set for Multisensor KNX (room air sensor only), for combination with existing KNX detector thePrema S/P UP WH




KNX presence detector PlanoSpot



- Passive infrared presence detector for false ceilings
- Square detection area 360°, 7 x 7 m (49 m<sup>2</sup>) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- Pivoting optics to adjust the detection area
- 2 channels of light with 2 light measurements and additional light channel C3 without brightness influence
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- Three directional brightness measurements (mixed light measurement), spot or Width measurement
- Simple adjustment of the brightness measurement
- Self-learning follow-up time, short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- 2 channels presence without brightness influence
- Switch-on delay and run-on time presence adjustable
- 1 channel Room monitoring without
- Influence of brightness, reduced detection sensitivity
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Can be extended to surface-mounted with accessories
- Setting via ETS software (full range of functions)
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
False ceilings	49 m <sup>2</sup> (7,0 x 7,0 m)	3 x light   2 x presence (3 light measurements)	White	PlanoSpot 360 KNX DE WH	2039100	139	130
			Black	PlanoSpot 360 KNX DE WH + PlanoCover 76 BK	2039100 + 9070977	139	130
			Silver	PlanoSpot 360 KNX DE WH + PlanoCover 76 SR	2039100 + 9070978	139	130


 Other colors available on request!

KNX presence detector thePiccola KNX



- Passive infrared presence detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m<sup>2</sup>) at 2.5 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Integrated temperature sensor
- Day / night switchover via telegram
- Stand-by functionality (orientation light)
- 6 logic channels (AND/OR/XOR)
- Aura function
- Room multiplier function
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through parallel connection
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Setting via ETS software (full range of functions)
- Setting via remote control/APP or APP (BLE)

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	2 x light   2 x presence	White	thePiccola P360 KNX DE WH	2099200	139	130
			Black	thePiccola P360 KNX DE WH + Cover 64 BK	2099200 + 9070797	139	130

 Other colors available on request!

### KNX presence detector theRonda P360 UP KNX



- Passive infrared presence detector for flush-mounted ceiling installation
- 360° circular detection area, Ø 24 m (452 m²) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- 2 channels presence without brightness influence
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Setting via ETS software (full range of functions)
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B
- Restriction of the detection area with cover clips

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling flush-mounted	452 m² (Ø 24 m   360°)	2 x light   2 x presence	White	theRonda P360 KNX UP WH	2089000	139	131
			Gray	theRonda P360 KNX UP WH + Cover 110 GR	2089000 + 9070591	139	131
			Black	theRonda P360 KNX UP WH + Cover 110 BK	2089000 + 9070851	139	131

Other colors available on request!

### KNX presence detector theRonda S360 UP KNX



- Passive infrared presence detector for flush-mounted ceiling installation
- Circular detection area 360°, Ø 8 m (50 m²) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- 2 channels presence without brightness influence
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Setting via ETS software (full range of functions)
- Range of functions
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B
- Restriction of the detection area with cover clips

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling flush-mounted	50 m² (Ø 8 m   360°)	2 x light   2 x presence	White	theRonda S360 KNX UP WH	2089520	139	131
			Gray	theRonda S360 KNX UP WH + Cover 110 GR	2089520 + 9070591	139	131
			Black	theRonda S360 KNX UP WH + Cover 110 BK	2089520 + 9070851	139	131

Other colors available on request!



KNX presence detector theRonda S360 AP/DE KNX



- Passive infrared presence detector for ceiling mounting
- Circular detection area 360°, Ø 8 m (50 m²) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- 2 channels presence without brightness influence
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Setting via ETS software (full)
- Range of functions)
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling-mounted	50 m² (Ø 8 m   360°)	2 x light   2 x presence	White	theRonda S360 KNX AP WH	2089550	139	23
			Gray	theRonda S360 KNX AP GR	2089551	139	23
			Black	theRonda S360 KNX AP BK	2089552	139	23
False ceilings	50 m² (Ø 8 m   360°)	2 x light   2 x presence	White	theRonda S360 KNX FLAT DE WH	2089560	139	23
			Gray	theRonda S360 KNX FLAT DE WH + Cover FLAT 85 GR	2089560 + 9070597	139	23
			Black	theRonda S360 KNX FLAT DE WH + Cover FLAT 85 BK	2089560 + 9070853	139	23

Other colors available on request!

KNX presence detector thePassa P360 UP KNX



- Passive infrared presence detector for flush-mounted ceiling installation
- Rectangular detection area 360°, 30x4.5 m (135 m²) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- Two separate detection zones
- 2 channels of light with 2 light measurements
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- Two directional brightness measurements (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Aura function
- Scene functionality
- Locking functions
- 2 channels presence without brightness influence
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Can be extended to recessed ceiling and surface-mounted with accessories
- Setting via ETS software (full)
- Range of functions)
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B
- Restriction of the detection area with cover clips

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	DA
Ceiling flush-mounted	150 m² (30,0 x 5 m)	2 x light   2 x presence	White	thePassa P360 KNX UP WH	2019300	139	24
			Gray	thePassa P360 KNX UP WH + Cover 110 GR	2019300 + 9070591	139	24
			Black	thePassa P360 KNX UP WH + Cover 110 BK	2019300 + 9070851	139	24

Other colors available on request!

### KNX wall detector theMura KNX



- Passive infrared presence/motion detector for wall mounting
- Rectangular detection area
- For KNX bus system, KNX Data-Secure
- Operation as fully or semi-automatic possible
- Integrated, freely parameterizable push-button (can be deactivated)
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Teach-in function, locking functions
- HVAC channel without brightness influence
- Switch-on delay and switch-off delay HVAC channel adjustable
- Extension of the Detection areas through master/slave or master/master parameterization
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Settings via ETS software (full range of functions)
- Area restrictions in the scope of delivery
- With Theben cover frame
- Also suitable for many common switch ranges (with accessories)
- **theMura S180 KNX UP WH**
- Motion detector, 1 light channel and 1 HVAC channel
- Switching or dimmable lighting in switching mode with and without the influence of daylight
- 3 logic channels (AND, OR, XOR)
- **theMura P180 KNX UP WH/theMura P180 2.20 KNX UP WH**
- Presence detector, 2 channels light and 2 channels HVAC
- Switching or constant light control with standby functionality (orientation light)
- Dimmable lighting in switching mode with and without daylight influence
- Simple adjustment of the brightness measurement
- Short-term presence, selectable control speed
- Aura function, scene functionality
- Integrated orientation light (white) and temperature sensor
- Acoustic function
- 2 binary inputs, 6 logic channels (AND, OR, XOR)
- Limited setting options with theSenda B app/universal remote control
- Limited setting options with theSenda P service remote control
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Mounting height	Channels	Product type	Colour	Type	Art.-No.	SD	DA
Wall	238 m <sup>2</sup> (14 x 17 m)	0,8-1,2 m	1 x light   1 x presence	Motion detector	White	theMura S180 KNX UP WH	2069650	137	130
			2 x light   2 x presence	Presence detector	White	theMura P180 KNX UP WH	2069655	137	130
	160 m <sup>2</sup> (16 x 10 m)	2,2 m	2 x light   2 x presence	Presence detector	White	theMura P180 2.20 KNX UP WH	2069658	140	130

### KNX outdoor detector theLuxa KNX



- Motion detector (PIR) for wall/ceiling mounting in outdoor areas
- Circular detection area 360°, Ø 32 m at 2.5 m mounting height
- For KNX bus system, 4 motion channels and 4 universal channels, 4 logic channels
- 4 separate detection zones
- Extension of the Detection areas through master/slave or master/master parameterization
- Automatic lighting control with dimming or switching operation
- Stand-by functionality (orientation light)
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- Programmable timer programs
- Brightness setpoint adjustable in lux
- Scene functionality, locking functions, dismantling protection
- Sensor head can be rotated and tilted in 2 directions
- Teach-in function, test function
- Ready for operation immediately due to factory presetting
- Adjustable detection sensitivity
- Mounting type: surface-mounted, also on EU flush-mounted box, corner mounting possible
- Setting via ETS software (full range of functions)
- Setting via remote control or potentiometer (limited range of functions)
- Restriction of the detection area with cover clips or parameters

Mounting type	Colour	Type	Art.-No.	SD	CD	DA
Wall/ceiling	White	theLuxa P300 KNX WH	1019610	140	164	133
	Black	theLuxa P300 KNX BK	1019611	140	164	133

### KNX switch actuators DIN rail



- DIN rail switching actuator 16 A 140 µF, KNX TP
- Manual operation and LED for the switching status of each channel
- Inrush current max. 800 A/200 µs, max. 600 W LED/channel
- Switching functions: e.g. on/off, pulse, on/off delay, staircase lighting with pre-warning
- Logical links: e.g. block, AND, release, OR
- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	Switching capacity/ LED lamp	Width	Type	Art.-No.	SD	CD
MIX2 basic module	4	16 (3) A/600 W	4 modules	RMG 4 U KNX	4930223	136	154
MIX2 extension	4	16 (3) A/600 W	4 modules	RME 4 U KNX	4930228	136	154
Basic module	8	16 (3) A/600 W	4 modules	RMG 8 S KNX	4930220	136	154
Extension module	8	16 (3) A/600 W	4 modules	RME 8 S KNX	4930225	136	154
Standard actuator	4	16 (3) A/600 W	4 modules	RM 4 U KNX	4940223	136	154
Standard actuator	8	16 (3) A/600 W	4 modules	RM 8 S KNX	4940220	136	154
Standard actuator	16	16 (3) A/600 W	8 modules	RM 16 S KNX	4940225	136	154

KNX switching actuators C-load / current measurement DIN rail

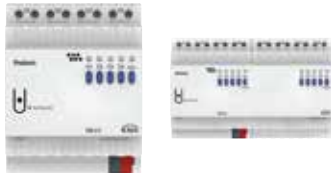


- DIN rail switching actuator 16 A C-load 200 µF, KNX TP
- With integrated current measurement per channel
- Inrush current max. 1500 A/200 µs, max. 850 W LED/channel
- Manual operation and LED for the switching status of each channel
- Switching functions: e.g. on/off, pulse, on/off delay, staircase lighting with pre-warning
- Logical links: e.g. block, AND, release, OR

- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	Switching capacity/ LED lamp	Width	Type	Art.-No.	SD	CD
MIX2 basic module	4	16 (10) A/850 W	4 modules	RMG 4 I KNX	4930210	136	154
MIX2 extension	4	16 (10) A/850 W	4 modules	RME 4 I KNX	4930215	136	155
Standard actuator	4	16 (10) A/850 W	4 modules	RM 4 I KNX	4940210	136	155
Standard actuator	8	16 (10) A/850 W	8 modules	RM 8 I KNX	4940215	136	155

KNX high-performance actuators DIN rail



- DIN rail switching actuator 25 A C-load 200 µF, KNX TP
- High performance actuator
- Inrush current max. 1200 A/200 µs, max. 850 W LED/channel
- Manual operation and LED for the switching status of each channel

- Power supply via bus voltage
- Switching functions: e.g. on/off, pulse, on/off delay, staircase lighting with pre-warning
- Logical links: e.g. block, AND, release, OR

Type	Number of channels	Switching capacity/ LED lamp	Width	Type	Art.-No.	SD	CD
Standard actuator	4	25 A/850 W	4 modules	RM 4 H KNX	4940212	136	155
Standard actuator	8	25 A/850 W	8 modules	RM 8 H KNX	4940217	136	155

KNX combination actuators DIN rail

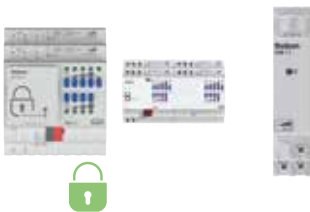


- DIN rail combination actuator 16 A 140 µF, KNX TP
- Flexible channel function selection as switching or blind actuator
- Inrush current max. 800 A/200 µs, max. 600 W LED/channel
- Manual operation and LED for the switching status of each channel
- Switching functions: e.g. on/off, pulse, on/off delay, staircase lighting with pre-warning
- Logical links: e.g. block, AND, release, OR

- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	Switching capacity/ LED lamp	Width	Type	Art.-No.	SD	CD
MIX2 basic module	8	16 A/600 W	4 modules	RMG 8 T KNX	4930200	136	154
MIX2 extension	8	16 A/600 W	4 modules	RME 8 T KNX	4930205	136	154
Standard actuator	8	16 A/600 W	4 modules	RM 8 T KNX	4940200	136	155
Standard actuator	16	16 A/600 W	8 modules	RM 16 T KNX	4940205	136	155

KNX dimming actuators 400 W DIN rail



- DIN rail universal dimming actuator 400 W, KNX TP
- 5-400 W LED/channel, 800 W LED in parallel operation
- For dimmable LED, incandescent and halogen lamps, energy-saving lamps, transformers, compact fluorescent lamps and fans
- Manual operation and LED for the switching status of each channel
- When using the 1-channel dimming booster DMB 1 T KNX, the dimming power can be extended by 300 W/VA (halogen and incandescent lamps), max. 4 boosters

- Automatic load detection (can be deactivated), for R, L/C loads
- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	LED lamp (RC-mode)	Width	Type	Art.-No.	SD	CD
MIX2 basic module	2	400 W	4 modules	DMG 2 T KNX	4930270	136	155
MIX2 extension	2	400 W	4 modules	DME 2 T KNX	4930275	136	156
Standard actuator	2	400 W	4 modules	DM 2 T KNX	4940270	136	156
Standard actuator	4	400 W	8 modules	DM 4 T KNX	4940275	136	156
Dimming booster extension module	1	300 W	1 module	DMB 1 T KNX	4930279	145	156



# Home and building automation

## KNX

### KNX dimming actuators 200 W DIN rail



- DIN rail universal dimming actuator 200 W, KNX TP
- 2-200 W LED/channel, up to 400 W LED in parallel operation (C1+C2 / C3+C4 / ....)
- For dimmable LED, incandescent and halogen lamps, energy-saving lamps, transformers, compact fluorescent lamps and fans
- Dimming range 0-100 %
- Manual operation and LED for the switching status of each channel
- Automatic load detection (can be deactivated)
- For R, L and C loads

Type	Number of channels	LED lamp (RC-mode)	Width	Type	Art.-No.	SD	CD
Standard actuator	4	200 W	4 modules	DM 4-2 T KNX	4940280	136	156
Standard actuator	8	200 W	8 modules	DM 8-2 T KNX	4940285	136	156

### KNX switching/dimming actuator DIN rail



- DIN rail 4-way switching/dimming actuator 10 A 133 µF, KNX TP
- For controlling electrical loads with 0-10 V or 1-10 V interface
- Flexible use of the control and relay outputs
- Control outputs suitable for active (0-10 V, source) and passive control (1-10 V, sink), as well as mixed operation
- Support for colour and colour temperature control
- Simple commissioning and programming in the ETS, without additional tools or ETS app
- Secure commissioning and communication through support of KNX Data Secure
- Inrush current max. 800 A, for reliable switching of capacitive loads

Type	Number of channels	LED lamp	Width	Type	Art.-No.	SD	CD
Standard actuator	4	600 W	4 modules	SM 4 KNX	4940310	136	157

### KNX DALI Gateway Multi-Master Application Controller DIN rail



- Multi-Master Application Controller as an interface between the DALI system and the KNX bus
- DALI-2 certified
- Safe commissioning and communication through
- Support for KNX Data Secure
- Control of 64 DALI devices in 16 groups or in individual control
- Integration of 8 DALI-2 motion/presence detectors with brightness or other physical sensors
- Extended functionality of the motion detector with 2-point or constant light control
- Support for 8 DALI-2 push-buttons and 8 generic input devices
- Support for energy reporting in accordance with DALI Part 252
- Control of light colour and colour temperature according to EN 62386-209 (DT-8) in groups or individually
- Automatic adjustment of the colour temperature to the
- Dimming value
- Scene module for 16 scenes (including DT8 colour control)
- Time-dependent control of brightness, light colour and colour temperature
- Effect module for sequence controls
- Support for self-contained emergency lights and
- Emergency lighting systems with central battery (EN 62386-202, DT-1)
- Integrated IoT interface: API/MQTT
- Commissioning via the operating elements on the device, via the integrated web server or via the free ETSApp (DCA)

Type	Art.-No.	SD	CD
DALI gateway P64 KNX	4940303	136	157

### KNX DALI gateway DIN rail



- The KNX-DALI gateway serves as an interface between the DALI system and the KNX bus
- DALI-2 certified
- A maximum of 64 DALI devices can be connected to one DALI output
- Control of DALI devices in 16 groups or in individual control
- Colored light control with Device Type 8 (DT8) for 16 groups: Colour temperature, XY, RGB, HSV, RGBW
- Time-dependent colour control (also for Human Centric Lighting applications)
- Scene module for 16 scenes (including colour setting DT8)
- Effect module for sequence controls (including DT8 colour setting): Colour temperature, XY, RGB, HSV, RGBW
- Energy saving by switching off the ECG power supply in the groups (communication object)
- Easy replacement of ECGs in the event of a fault
- Commissioning via the free ETS app (DCA)

Channels	Type	Art.-No.	SD	CD
1 for 64 DALI luminaires	DALI gateway S64 KNX	4940301	136	-
2 for 2x64 DALI luminaires	DALI gateway S128 KNX	4940302	136	-

### KNX DALI actuator DIN rail

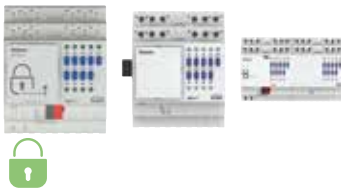


- 4-way DALI actuator, DALI-2 certified
- Interface between the DALI system and the KNX bus
- 4 channels, broadcast communication
- Control of up to 30 DALI devices per channel
- Control of light colour and colour temperature according to EN 62386-209 (DT-8)

- Simple commissioning and maintenance thanks to broadcast communication
- Easy replacement of ECGs in the event of a fault
- Simple commissioning and programming in the ETS, without additional tools or ETS app
- Secure communication with KNX Data Secure

Type	Art.-No.	SD	CD
DM 4 DALI KNX	4940300	136	150

### KNX blinds actuators DIN rail

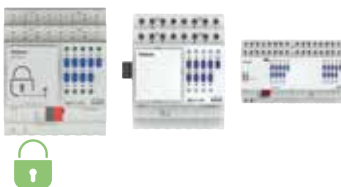


- DIN rail blinds actuator 6 A, KNX TP
- For controlling drives for blinds, roller shutters, sun and privacy protection devices, roof hatches and ventilation flaps
- Manual operation and LED for the switching status of each channel

- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	Switching capacity	Width	Type	Art.-No.	SD	CD
MIX2 basic module	4	6 A	4 modules	JMG 4 T KNX	4930250	136	157
MIX2 extension	4	6 A	4 modules	JME 4 T KNX	4930255	136	157
Standard actuator	4	6 A	4 modules	JM 4 T KNX	4940250	136	157
Standard actuator	8	6 A	8 modules	JM 8 T KNX	4940255	136	158

### KNX blinds actuators 24 V DIN rail



- DIN rail blinds actuator 24 V 6 A, KNX TP
- For controlling drives for blinds, roller shutters, sun and privacy protection devices, roof hatches and ventilation flaps
- Manual operation and LED for the switching status of each channel

- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	Switching capacity	Width	Type	Art.-No.	SD	CD
MIX2 basic module	4	6 A	4 modules	JMG 4 T 24V KNX	4930260	136	158
MIX2 extension	4	6 A	4 modules	JME 4 T 24V KNX	4930265	136	158
Standard actuator	4	6 A	4 modules	JM 4 T 24V KNX	4940260	136	158
Standard actuator	8	6 A	8 modules	JM 8 T 24V KNX	4940265	136	158

### KNX heating actuators DIN rail



- DIN rail heating actuator, KNX TP
- For controlling thermal actuators 24 - 240 V AC
- Maximum 5 actuators 230 V AC or 1 actuator 24 V AC per channel
- Manual operation and LED for the switching status of each channel
- With short-circuit and overload protection
- Continuous or switching actuating variable selectable
- Valve protection function can be deactivated
- With the following modes: comfort, standby, night and frost/heat protection mode
- Summer mode switchover possible

- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming
- Optional ALPHA 5 230 V (9070440) and ALPHA 5 24 V (9070441) actuators see page 127

Type	Number of channels	Width	Type	Art.-No.	SD	CD
MIX2 basic module	6	4 modules	HMG 6 T KNX	4930240	136	158
MIX2 extension	6	4 modules	HME 6 T KNX	4930245	136	158
Standard actuator	6	4 modules	HM 6 T KNX	4940240	136	158
Standard actuator	12	8 modules	HM 12 T KNX	4940245	136	159

# Home and building automation

## KNX



### KNX heating actuators Heating circuit distributor



- AP heating actuator, KNX TP
- With integrated controllers
- For controlling heating circuits with thermal actuators, switching 24 V DC or continuous 0-10 V DC
- Integration of up to 2 heating circuit pumps
- To include the boiler control system
- Demand-based adjustment of the flow temperature: Automatic determination of the maximum actuating value to adjust the flow temperature to the actual demand
- No KNX room thermostat required:
- Flexible use of each channel as a heating actuator or heating controller
- Installation directly in the heating circuit manifold
- Screwless plug-in terminal technology
- Integrated power supply for max. 12 thermal actuators
- Silent semiconductor switches (Triac)
- Continuous or switching actuating variable selectable
- Optional ALPHA 5 24 V actuator (9070441) see page 127

Switching capacity	Switching output	Number of channels	Type	Art.-No.	SD	CD
6/12 x valve output 24V DC or 0-10V DC	5 A, 240 V AC potential-free (pump)	12	HMT 12 S KNX	4900374	136	159
		6	HMT 6 S KNX	4900373	136	159

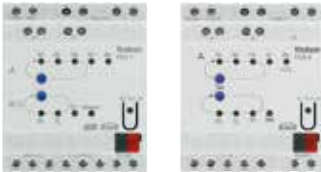
### KNX motorized actuator



- Motorized KNX actuator for heating and cooling valves
- Integrated temperature sensor
- Integrated controller for efficient heating and cooling, each with an additional stage
- High actuating force of up to 220 N with a maximum valve stroke of 8 mm
- 2 universal binary inputs, connection option e.g. for external temperature sensor, window contact, presence detector or push-button
- Integrated logic for up to 10 window contacts
- Can be used in the heating circuit manifold
- Integrated bus coupler
- Automatic valve adaptation
- Universally applicable thanks to large range of valve adapters
- 2 different valve adapters for the most common valves M30x1.5 and Danfoss included (VA 10, VA 100)
- Secure commissioning and communication through support of KNX Data Secure

Type	Art.-No.	SD	CD
CHEOPS S KNX	7319205	140	-

### KNX fan coil actuators DIN rail



- Fan coil actuator
- For controlling fan coil units (fan coil units)
- For 2-pipe systems and 4-pipe systems
- For up to three fan speeds
- Auxiliary relay for electric heating coil or cooling coil
- Potential-free input for window contacts or temperature sensor
- Potential-free input Condensate monitoring
- Display of the operating status via 9 LEDs
- Manual operation on the appliance (fan stages, switching between heating and cooling)
- Adjustment of the setpoint for cooling depending on the outside temperature
- Potential-free switching contact optionally for cooling or heating coil
- With emergency program

Function	Type	Art.-No.	SD	CD
For 2-point and 3-point valves	FCA 1 KNX	4920200	140	159
Also optionally with 0-10 V fan control, for proportional 0-10 V valves	FCA 2 KNX	4920210	140	159

### KNX-OpenTherm Gateway



- The KNX-OT-Box S serves as an interface between the heat generator with OpenTherm bus and the KNX bus
- It enables the bidirectional exchange of data between the OpenTherm heat generator and the heat distribution via the KNX system (individual room control)
- Device and KNX bus module can be replaced independently of each other
- Removable KNX bus module
- The following functions can be realized with the KNX-OT-Box S:
- Demand-based flow control
- Weather-compensated flow control
- Control of domestic hot water heating
- Energy optimization of domestic hot water heating with solar support
- Heating of the floor covering / drying program
- Legionella protection program

Type	Art.-No.	SD	CD
KNX-OT-Box S	8559201	140	159

## KNX Split Unit Gateway



- Split Unit Gateway KNX for controlling climate split devices via KNX
- Easy to set up IR gateway with large database of split unit devices
- Over 500 different split unit devices/remote controls are currently available and controllable in the database
- This database is DIN regularly expanded

Type	Art.-No.	SD	CD
AC IR1 KNX	4940320	137	-

## KNX flush-mounted switching actuators



- Flush-mounted 1-way switching actuator 16 A 130 µF, Data Secure
- Extensive functions such as switching, staircase lighting, pulse function
- 1x NO contact & 1x NC contact with common control
- Adjustable properties: normally closed/ normally open, switching, delay, pulse function
- 2 binary inputs for potential-free contacts such as buttons, switches, temperature sensor (with accessories 9070321,9070459,9070496 - see page 126/127)
- Secure commissioning and communication through support of KNX Data Secure
- Easy installation thanks to particularly compact housing
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	Switching capacity/LED lamp	Function	Type	Art.-No.	SD	CD
1	10 A/600 W	Flush-mounted actuator RF (wireless)	SU 1 S RF KNX	4941621	137	151
	16 A/600 W	Flush-mounted actuator TP	SU 1 KNX	4942520	136	151

## KNX flush-mounted dimming actuators



- Flush-mounted 1-way dimming actuator 250 W, Data Secure
- For dimmable LED, incandescent and halogen lamps, energy-saving lamps and dimmable transformers
- Simple adaptation to different light sources thanks to automatic load detection
- Adjustable dimming curve for precise and flicker-free dimming
- 2 binary inputs for potential-free contacts such as buttons, switches, temperature sensor (with accessories 9070321,9070459,9070496 - see page 126/127)
- Secure commissioning and communication through support of KNX Data Secure
- Easy installation thanks to particularly compact housing
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	LED lamp (RC mode)	Function	Type	Art.-No.	SD	CD
1	250 W	Flush-mounted actuator RF (wireless)	DU 1 S RF KNX	4941671	137	151
		Flush-mounted actuator TP	DU 1 KNX	4942570	136	151

## KNX flush-mounted DALI actuators



- Flush-mounted 1-way DALI wireless actuator, Data Secure
- DALI-2 certified
- Interface between the DALI and the KNX bus system
- Simple commissioning of up to 30 ECGs in broadcast mode
- Control of RGB, RGBW, Tunable White or conventional luminaires
- DT-8 luminaire support
- Easy replacement of ECGs in the event of a fault
- 2 binary inputs for potential-free contacts such as buttons, switches, temperature sensor (with accessories 9070321,9070459,9070496 - see page 126/127)
- Secure commissioning and communication through support of KNX Data Secure
- Easy installation thanks to particularly compact housing
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	Function	Type	Art.-No.	SD	CD
1	Flush-mounted actuator RF (wireless)	DU 1 DALI S RF KNX	4941681	137	151
	Flush-mounted actuator TP	DU 1 DALI KNX	4942580	136	151

# Home and building automation

## KNX



### KNX flush-mounted blinds actuators



- Flush-mounted 1-way blinds actuator 10 A, Data Secure
- 1-way blind actuator or 2-way switching actuator
- For controlling drives for blinds, roller shutters, sun and privacy protection devices, roof hatches and ventilation flaps
- 2 binary inputs for potential-free contacts such as buttons, switches, temperature sensor (with accessories 9070321,9070459,9070496 - see page 126/127)

- Secure commissioning and communication through support of KNX Data Secure
- Easy installation thanks to particularly compact housing
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	Switching capacity	Function	Type	Art.-No.	SD	CD
1	5 A	Flush-mounted actuator RF (wireless)	JU 1 S RF KNX	4941651	137	152
	10 A	Flush-mounted actuator TP	JU 1 KNX	4942550	136	152

### KNX flush-mounted heating actuators



- Flush-mounted 1-way heating actuator, Data Secure
- With integrated controller
- Silent control of thermal actuators 230 V AC
- Function selection as heating actuator (control valve continuous or switching) or as heating controller (integrated temperature controller heating / cooling)
- Integrated valve protection function and summer mode
- 2 binary inputs for potential-free contacts such as buttons, switches, temperature sensor (with accessories 9070321,9070459,9070496 - see page 126/127)

- Secure commissioning and communication through support of KNX Data Secure
- Easy installation thanks to particularly compact housing
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)
- Optional ALPHA 5 230 V (9070440) and ALPHA 5 24 V (9070441) actuators see page 127

Number of channels	Switching capacity	Function	Type	Art.-No.	SD	CD
1	Max. 1 A or 4 actuators 230 V AC (e.g. ALPHA 5)	Flush-mounted actuator RF (wireless)	HU 1 S RF KNX	4941641	137	153
		Flush-mounted actuator TP	HU 1 KNX	4942540	136	153

### KNX flush-mounted actuators for electric heaters



- Flush-mounted 1-way actuator for electric heaters, Data Secure
- For direct connection of electric heaters with high switching capacity
- Integrated temperature controller for heating/cooling
- Temperature controller can also be configured as an additional stage
- 2 binary inputs for potential-free contacts such as buttons, switches, temperature sensor (with accessories 9070321,9070459,9070496 - see page 126/127)

- Secure commissioning and communication through support of KNX Data Secure
- Easy installation thanks to particularly compact housing
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	Switching capacity	Function	Type	Art.-No.	SD	CD
1	10 A	Flush-mounted actuator RF (wireless)	EU 1 S RF KNX	4941642	137	152
	16 A	Flush-mounted actuator TP	EU 1 KNX	4942542	136	152

### KNX radio push-button interface flush-mounted



- Flush-mounted 4-way radio push-button interface, KNX RF, Data Secure
- 4 binary inputs for potential-free push-buttons
- Additional binary input for connecting a temperature sensor (with accessories 9070321, 9070459, 9070496 - see page 126/127)

- Secure commissioning and communication through support of KNX Data Secure
- Free assignment of the functions switching, dimming, blinds, temperature measurement and transmission
- Easy installation thanks to particularly compact housing
- Can be used with 4-way push-button module (9070806)

Type	Art.-No.	SD	CD
TU 4 S RF KNX	4961614	137	-

## KNX media coupler flush-mounted



- Connects KNX RF devices of a radio line to the KNX bus twisted pair
- The power is supplied via KNX bus voltage
- Supports long frames for "KNX Secure" and enables faster download of large applications in parallel
- Ranges of max. 30 m within the building are possible
- Has a repeater function, i.e. received telegrams are sent again to increase the range
- Support of the segment coupling and secure proxy functions from ETS 6 application version 2.x

Type	Art.-No.	SD	CD
Media coupler TP-RF KNX	9070868	137	152

## KNX push-button/actuator modules



- KNX push-button/actuator modules for various functions (operating, switching, dimming, blinds), KNX RF, Data Secure
- 4 touch points
- Can be used universally in many 55 mm switch programs
- Quick and easy conversion of conventional installations
- 1-way or 2-way rockers required as separate accessories, article numbers 9080026, 9080027, see page 128)
- Secure commissioning and communication through support of KNX Data Secure
- PB 4 RF KNX: Integrated temperature sensor

Number of channels	Function	LED lamp	Type	Art.-No.	SD	CD
1	Flush-mounted switching actuator RF with 4 touch points	600 W	PS 1 RF KNX	4941625*	137	152
	Flush-mounted blind actuator RF with 4 touch points	-	PJ 1 RF KNX	4941655*	137	152
	Flush-mounted dimming actuator RF with 4 touch points	250 W (RC mode)	PD 1 RF KNX	4941675*	137	152
	Flush-mounted push-button RF with 4 touch points	-	PB 4 RF KNX	4961615*	137	-

\* Available from May 2024

## KNX binary inputs DIN rail



- DIN rail binary input, KNX TP
- Multi-voltage inputs 10 - 240 V AC/DC, integrated 12 V DC power supply unit
- 2 additional channels can be operated using buttons on the device
- Manual operation and LED for the switching status of each channel
- All inputs can be operated with different voltages and at different potentials
- Connectable cable length up to 100 m
- Free assignment of functions: Switch/button, dimming, blind/shutter, counter, repeat telegram, sequences
- **Basic modules**
- Secure commissioning and communication through support of KNX Data Secure
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- KNX device and bus module can be replaced independently of each other
- Removable KNX bus module enables devices to be replaced without reprogramming

Type	Number of channels	Width	Type	Art.-No.	SD	CD
MIX2 basic module	6	4 modules	BMG 6 T KNX	4930230	136	159
MIX2 extension	6	4 modules	BME 6 T KNX	4930235	136	160
Standard actuator	6	4 modules	BM 6 T KNX	4940230	136	153
Standard actuator	12	8 modules	BM 12 T KNX	4940235	136	160

## KNX binary inputs/flush-mounted push-button interfaces



- Flush-mounted push-button interface, KNX TP
- Can be installed in flush-mounted boxes with conventional push-buttons/switches
- Flexible LED control, thanks to increased output current of 3 mA, commercially available LEDs and low current LEDs can be controlled
- Inputs can be re-parameterized to outputs with parameterizable flashing and pulsing function
- Identification of the wire pairs via colour coding
- TA 4 S/TA 6 S/TA 8 S: 2 NTC inputs for temperature detection (with accessories 9070321, 9070459, 9070496)
- Connectable cable length up to 30 m

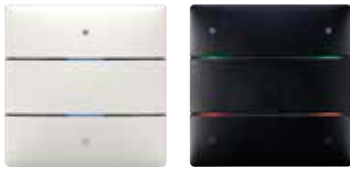
Number of channels/binary inputs	Type	Art.-No.	SD	CD
2	TA 2 S KNX	4969222	138	157
4	TA 4 S KNX	4969224	138	157
6	TA 6 S KNX	4969226	138	157
8	TA 8 S KNX	4969228	138	157



# Home and building automation

## KNX

### KNX push-button sensors



- 2- or 4-way push-button sensor, KNX TP, Data Secure
- Push-button sensor with 2/4 buttons and 2/4 status LEDs with integrated temperature sensor
- Control of the functions switching, dimming, blinds, value transmitter, operating mode, scene, colour control, sequence
- Secure commissioning and communication through support of KNX Data Secure
- Up to 3 different telegrams per button
- Sending different telegrams with short, long or double-click
- Multicolored status LEDs with adjustable colors for each LED separately
- Behavior of each status LED can be set: static, flashing or

- pulsing
- Brightness of each status LED can be set individually via object or parameter
- Automatic brightness control of the status LEDs depending on the ambient brightness
- Integrated temperature sensor for visualization and temperature control via heating actuators
- Function monitoring via object (signaling of disassembly)
- Vertical mounting of two iON push-button sensors on standard double box possible with accessories
- Transparent cover for individual labeling included in the scope of delivery
- Surface mounting possible with separate accessories (9080024/9080025 - see page 128)

Function	Colour	Type	Art.-No.	SD	CD
2 buttons, 2 status LEDs	White, similar to RAL 9016	iON 102 KNX	4969232	137	-
	Black, similar to RAL 9005	iON 102 KNX BK	4969242	137	-
	Silver, similar to RAL 9006	iON 102 KNX SR	4969252	137	-
4 buttons, 4 status LEDs	White, similar to RAL 9016	iON 104 KNX	4969234	137	-
	Black, similar to RAL 9005	iON 104 KNX BK	4969244	137	-
	Silver, similar to RAL 9006	iON 104 KNX SR	4969254	137	-

### KNX room controller



- Room controller, 20 functions, KNX TP, Data Secure
- Integrated temperature controller for DIN railulating and controlling the operating mode, temperature and fan speed
- Access to the room controller via Bluetooth and operation with iONplay app
- Secure commissioning and communication through support of KNX Data Secure
- LC display for displaying functions, icons and values
- Integrated temperature controller for DIN railulating and controlling the operating mode, temperature and fan speed
- 20 freely parameterizable functions
- Free assignment of icons to the functions (40 icons to choose from)

- Control of the functions switching, dimming, blinds, value transmitter, operating mode, scene, colour control, sequence
- Display brightness individually adjustable via object or parameter
- Automatic brightness control of the display depending on the ambient brightness
- Function monitoring via object (signaling of disassembly)
- Vertical mounting of two iON push-button sensors on standard double box possible with accessories
- Surface mounting possible with separate accessories (9080024/9080025 - see page 128)

Colour	Type	Art.-No.	SD	CD
White, similar to RAL 9016	iON 108 KNX	4969238	137	-
Black, similar to RAL 9005	iON 108 KNX BK	4969248	137	-
Silver, similar to RAL 9006	iON 108 KNX SR	4969268	137	-

### KNX multifunction display



- Multifunctional display with room thermostat
- Glass front in white
- Freely parameterizable, for displaying and controlling functions, e.g. light scenes, sun protection systems
- For the control and DIN railulating of e.g. heating systems, fan coils, air conditioning systems
- Illuminated display and integrated timer
- Up to 7 different display pages
- Automatic summer/winter time for the time with power reserve
- Controls up to 8 rooms with its own temperature profiles

- Weekly timer with 8 channels with up to
- 3 different statuses, e.g. for light, shutter, fan, etc.
- 3 heating programs
- Choice of continuous or two-point control
- Operating modes: Comfort, standby, night mode-
- lowering, frost protection
- Weather data from the Theben weather station
- can be displayed
- Free programming via the ETS without "plug in"
- Mounting on flush-mounted box

Type	Art.-No.	SD	CD
VARIA 826 S WH KNX	8269210	140	-

KNX room air sensor



- KNX room air sensor, for measuring the CO<sub>2</sub> concentration, relative humidity, temperature and air pressure
- With integrated individual room temperature controller
- Visual display via the LED traffic light system (green, yellow, red)
- Three independent parameterizable thresholds for CO<sub>2</sub> concentration and relative humidity
- If the thresholds are exceeded or not reached, an action can be executed (sending, priority, switching, value)
- Indication of the CO<sub>2</sub> concentration and relative humidity thresholds reached by multi-colored LEDs
- Comparator for internal manipulated variables or external values
- For controlling heating actuators or motorized actuators
- Two front plates are included in the scope of delivery: an absolute scale (mounted) and a relative scale (enclosed)
- Button for presence or operating modes: comfort, standby, night setback, frost protection
- 4 binary inputs for conventional switches / buttons (switching, dimming, blinds, value transmitter), also for external temperature sensor, window contact or presence signal
- Temperature sensor can be connected to limit the floor temperature or measure the room temperature
- LED (red) for heating mode, (blue) for cooling mode

Type	Art.-No.	SD	CD
AMUN 716 S KNX	7169230	138	160

KNX individual room temperature controller



- Individual room temperature controller
- For controlling heating actuators or motorized actuators
- Can be used as a continuous or two-point controller (can also be combined)
- Continuous PI control configurable for 2-stage heating (basic and additional stage, e.g. underfloor heating and radiators) or for heating and cooling (radiators and cooling ceiling)
- Temperature sensor can be connected to limit the floor temperature
- Object for presence or operating modes comfort, standby, night setback, frost protection
- LED (red) for heating mode, (blue) for cooling mode
- 4 binary inputs for conventional switches / buttons (switch / button, dimming, blinds, value transmitter, LED control)
- **RAMSES 718 P KNX**
- With control elements
- Two front plates are included in the scope of delivery: an absolute and a relative scale
- Setting wheel can be restricted by parameter
- Button for presence or operating modes: comfort, standby, night setback, frost protection

Type	Art.-No.	SD	CD
RAMSES 718 P KNX	7189210	138	160
RAMSES 718 S KNX	7189200	140	160

KNX weather station



- **Meteodata 140 basic**
- Combination sensor / weather station
- For fully automatic blinds and sun shading control
- Recording and evaluation directly in the device
- 10 universal channels for wind, temperature, brightness
- Sun protection for up to three façades thanks to 3 integrated brightness sensors
- 3 sun protection channels
- 4 additional threshold channels for linking external KNX sensors
- 6 logic channels
- **Meteodata 140 S**
- Combination sensor / weather station
- For fully automatic blinds and sunshade control with automatic sun position tracking
- Rain sensor with heating
- 10 universal channels for wind, rain, temperature, brightness
- Recording and evaluation directly in the device
- Sun protection for up to eight façades thanks to 3 integrated brightness sensors
- 8 sun protection channels
- 4 additional threshold channels for linking external KNX sensors
- 6 logic channels
- **GPS versions**
- Integrated GPS receiver (provides additional time signal)
- Automatic calculation of elevation and azimuth
- Operation without mains voltage possible, the GPS module then has no function

Capture	With GPS module	Operating voltage	Type	Art.-No.	SD	CD
Wind, rain, brightness, temperature	-	15 - 34 V DC	Meteodata 140 S 24V KNX	1409201	138	-
Wind, rain, brightness, temperature, time	✓	15 - 34 V DC	Meteodata 140 S 24V GPS KNX	1409204	138	-
Wind, rain, brightness, temperature	-	110 - 230 V AC	Meteodata 140 S KNX	1409207	138	160
Wind, rain, brightness, temperature, time	✓	110 - 230 V AC	Meteodata 140 S GPS KNX	1409208	138	160
Wind, brightness, temperature	-	-	Meteodata 140 basic KNX	1409205	138	160

# Home and building automation

## KNX



### KNX twilight switch



- Twilight switch/light control unit
- External light sensor included in the scope of delivery
- For brightness-dependent control
- 10 channels
- 4 threshold channels for linking external KNX sensors (e.g. temperature)
- 6 logic channels
- Up to 3 digital brightness sensors can be connected
- Convenient manual operation
- 4 buttons for threshold and delay time input
- DuoFix spring terminals
- For 2 conductors each
- Wire or stranded wire (with or without ferrule)
- Wire diameter: 0.5 - 2.5 mm<sup>2</sup>
- Actuating button to release the plug connection
- Display illumination (can be switched off)
- Threshold values can be shown, called up and changed on the display
- PIN coding

Type	Art.-No.	SD	CD
LUNA 134 KNX	1349200	140	-

### KNX brightness sensor



- Brightness sensor
- Brightness range from 1-100,000 lux
- Can be ideally combined with Theben weather stations for individual sun shading control

Type	Art.-No.	SD	CD
LUNA 133 KNX	1339200	140	-

### KNX brightness/temperature sensor



- Brightness and temperature sensor
- For brightness and temperature-dependent control in outdoor areas
- 5 freely parameterizable channels: 1 sun protection channel and 4 universal channels
- Sun protection channel with automatic sun protection especially for blind, awning and roller shutter applications
- Universal channels enable the link between brightness and temperature
- Brightness range from 1-100,000 lux
- Temperature range -20 °C to + 55 °C
- Teach-in object for the brightness threshold

Type	Art.-No.	SD	CD
LUNA 131 S KNX	1319201	140	-

### KNX time switches



- Digital time switch with annual and astro program
- DuoFix spring clamps for 2 conductors each
- Text-oriented user guidance on the display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 8-year power reserve (lithium battery)
- ON-OFF switching times
- Impulse program
- Cycle program
- Extensive year clock functions
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- Circuit preselection
- Continuous ON/OFF
- Count-down timer
- Integrated operating hours counter
- Holiday program
- 2 random programs
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover
- Time and date synchronization from other bus devices

Connection option	Type	Art.-No.	SD	CD
DCF antenna	TR 648 top2 RC-DKF KNX	6489210	140	160
DCF or GNSS antenna	TR 648 top2 RC KNX	6489212	140	160

KNX indoor clocks



- OSIRIA 220 AR KNX, OSIRIA 230 AR KNX, OSIRIA 240 AR KNX
- KNX indoor clock, round, one-sided
- Black bar hands for hour and minute display, red second hand
- White metal dial with black Arabic numerals
- Impact-resistant plastic housing
- Frosted edge
- Flat, impact-resistant Plexiglas
- Dial diameter:
- 250 mm / 300 mm / 400 mm
- OSIRIA 230 SR KNX, OSIRIA 240 SR KNX
- KNX indoor clock, round, one-sided
- Black bar hands for hour and minute display, red second hand
- White metal dial with black fine-line numerals
- Impact-resistant plastic housing
- Frosted edge
- Flat, impact-resistant Plexiglas
- Dial diameter: 300 mm / 400 mm
- OSIRIA 241 BR KNX, OSIRIA 241 AR KNX
- KNX indoor clock, round, one-sided
- Metal housing, silver metallic (RAL 9006 white aluminum)
- Black bar hands for hour and minute display, red second hand
- White metal dial with black DIN bar numerals or Arabic numerals
- Curved impact-protected Plexiglas
- Dial diameter: 400 mm
- OSIRIA 242 AR KNX, OSIRIA 242 SR KNX
- KNX indoor clock, round, double-sided
- With wall or ceiling bracket (150 mm)
- White dial
- Black Arabic numerals or black fine-line numerals
- Black bar hands for hour and minute display, red second hand
- White painted metal housing
- Impact-protected Plexiglas
- Dial diameter: 400 mm
- OSIRIA 251 BQ KNX
- KNX indoor clock, square, one-sided
- Limited ball impact resistance, e.g. for sports halls, schools, etc.
- White metal dial with black bar numerals
- Black bar hands for hour and minute display, red second hand
- Single-sided, white-painted metal housing (RAL 9016) for heavy-duty use
- Laminated safety glass
- Lever-out-proof 3-point fastening
- Dial: 400 mm x 400 mm
- OSIRIA 232 BQ KNX
- KNX indoor clock, square, one-sided, for flush-mounted installation (for operating theaters)
- White metal dial with black bar numerals
- Black bar hands for hour and minute display, red second hand
- Tile-flush or wall-enclosing housing frame made of stainless steel V4A for wall installation (flush-mounted)
- Resistant to acids, cleaning agents and disinfectants, dust and water-protected when installed in accordance with protection class IP 54 (DIN 40050)
- Flat mineral glass 3 mm
- Dial: 250 x 250 mm

Housing material	Dial dimensions	Digit type	Power reserve	Type	Art.-No.
Plastic housing	Ø 250 mm	Arabic numerals	10 days	OSIRIA 220 AR KNX	5009200
	Ø 300 mm	Arabic numerals	10 days	OSIRIA 230 AR KNX	5009210
	Ø 300 mm	Fine line digits	10 days	OSIRIA 230 SR KNX	5009211
	Ø 400 mm	Arabic numerals	10 days	OSIRIA 240 AR KNX	5009230
	Ø 400 mm	Fine line digits	10 days	OSIRIA 240 SR KNX	5009231
Silver metallic painted metal housing	Ø 400 mm	Arabic numerals	10 days	OSIRIA 241 AR KNX	5009240
	Ø 400 mm	Bar digits	10 days	OSIRIA 241 BR KNX	5009241
White painted metal housing	Ø 400 mm	Arabic numerals	10 days	OSIRIA 242 AR KNX	5009250
	Ø 400 mm	Fine line digits	10 days	OSIRIA 242 SR KNX	5009251
	400 x 400 mm	Bar digits	10 days	OSIRIA 251 BQ KNX	5009252
Stainless steel housing	250 mm x 250 mm	Bar digits	10 days	OSIRIA 232 BQ KNX	5009223

# Dream pair for lighting control Presence detector and DALI-2

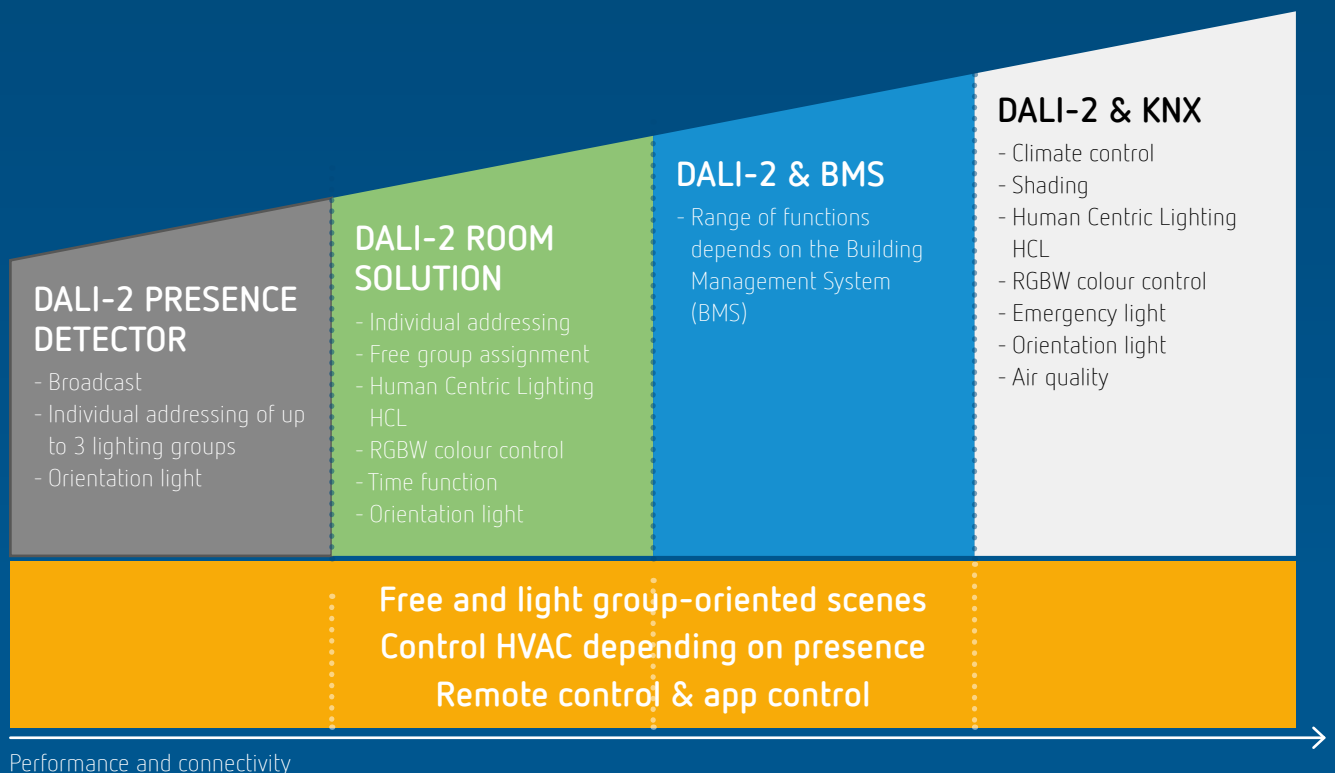
Theben offers you a wide range of DALI-2 presence detectors and presence sensors for almost every requirement. DALI-2 broadcast presence detectors enable high-quality standard solutions with simple commissioning, a lighting group with constant light control and orientation light. An external DALI-2 relay can also be easily integrated, for example for HVAC applications.


Addressable DALI-2 presence detectors allow flexible assignment of up to three lighting groups on one DALI line with constant light control and orientation light. The devices offer 2- or 3-channel mixed light measurement. In addition, the pushbuttons can be conveniently assigned to the individual lighting groups by remote control or by pushbutton.

With the DALI-2 Room Solution, you can implement individual, DALI-2-based lighting controls with HCL functionality, RGBW light and time-controlled functions. And it's as simple as with broadcast detectors. All DALI-2 presence sensors can also be integrated into the DALI-2 Room Solution.

Theben DALI-2 presence sensors can be operated with any Multimaster application controller that complies with IEC 62386 parts 101/104. This means you can also connect your DALI-2 lighting management system to the higher-level control of a building management system.

A large selection of KNX/DALI gateways allows the bridge to the KNX world and thus additional functionality such as shading and climate control.



	Mounting type	Detection area diagonally	Detection area Seated	Protection class	Type	Page
<b>DALI-2 Room Solution presence detector</b>						
	Ceiling flush-mounted	452 m <sup>2</sup> (ø 24 m   360°)	28 m <sup>2</sup> (ø 6 m   360°)	IP 54	theRonda P360 DALI-2 HCL UP WH	48
<b>DALI-2 Room Solution flush-mounted switching actuator</b>						
	Wall	-	-	IP 20	SU 1 DALI-2	48
<b>DALI-2 Room Solution flush-mounted push-button interface</b>						
	Wall	-	-	IP 20	TA 4 S DALI-2	48
<b>DALI-2 Presence detector theRonda P360-330 DALI</b>						
	Ceiling flush-mounted	452 m <sup>2</sup> (ø 24 m   360°)	28 m <sup>2</sup> (ø 6 m   360°)	IP 54	theRonda P360-330 DALI UP	49
<b>DALI-2 Presence detector theRonda DALI</b>						
	Ceiling flush-mounted	452 m <sup>2</sup> (ø 24 m   360°)	28 m <sup>2</sup> (ø 6 m   360°)	IP 54	theRonda P360-110 DALI UP	49
		50 m <sup>2</sup> (ø 8 m   360°)	13 m <sup>2</sup> (ø 4 m   360°)	IP 54	theRonda S360-110 DALI UP	49
<b>DALI-2 Presence detector thePassa DALI</b>						
	Ceiling flush-mounted	150 m <sup>2</sup> (30,0 x 5 m)	-	IP 54	thePassa P360-221 DALI	50
<b>DALI-2 Presence sensor theRonda DALI-2 S</b>						
	Ceiling flush-mounted	452 m <sup>2</sup> (ø 24 m   360°)	28 m <sup>2</sup> (ø 6 m   360°)	IP 54	theRonda P360 DALI-2 S UP WH	50
		50 m <sup>2</sup> (ø 8 m   360°)	13 m <sup>2</sup> (ø 4 m   360°)	IP 54	theRonda S360 DALI-2 S UP WH	50
<b>DALI-2 Presence sensor thePassa P360 DALI-2 S</b>						
	Ceiling flush-mounted	150 m <sup>2</sup> (30,0 x 5 m)	-	IP 54	thePassa P360 DALI-2 S UP WH	51
<b>DALI-2 Presence sensor PlanoSpot 360 DALI-2 S</b>						
	False ceilings	49 m <sup>2</sup> (7,0 x 7,0 m)	20 m <sup>2</sup> (4,5 x 4,5 m   360°)	IP 20	PlanoSpot 360 DALI-2 S DE WH	51





# Home and building automation

## Lighting solutions with DALI-2

### DALI-2 Room Solution presence detector



#### Functional description DALI-2 Room Solution

- The DALI-2 Room Solution is a DALI-2 single room solution that handles all aspects of lighting control
- Compared to DALI presence detectors, the DALI-2 Room Solution offers new functionalities such as HCL function, TW/RGB functionality, time-controlled functions and more
- For the individual room solution, all key components (presence detector, switching actuator, push-button interface) and the app for commissioning are available from a single source

#### theRonda P360 DALI-2 HCL UP WH

- Passive infrared presence detector for flush ceiling mounting, DALI-2 certified
- Circular detection area 360°, Ø 24 m, (452 m²) at 3 m mounting height
- DALI-2 addressable up to 4 channels light
- Evaluates the information from the DALI push-button interfaces and controls the actuators such as DALI ECGs or DALI relays in accordance with the DALI-2 standard
- Colour temperature control based on the time of day HCL (Human Centric Lighting)
- Operation with RGBW light sources
- Time-controlled actions via integrated timer
- Flexible assignment of up to 4 lighting groups, plus up to 4 switching groups and 2 presence groups via app
- Constant light control or dimmable lighting in switching mode with and without daylight influence, orientation light
- Switching mode and constant light control without presence influence

- Adaptive 3-channel light measurement
- Scenes can now be created with any DALI ECGs and called up via universal remote control or push-button
- Simple integration of up to 4 DALI push-button interfaces (16 push-buttons) via app
- Simple, intuitive commissioning and operation thanks to the app, bidirectional communication via BLE and therefore easy readout of all parameters
- Connection protection to protect against external manipulation
- Dimming speed manual dimming adjustable in 2 levels
- Self-learning run-on time
- Shortening of the follow-up time in case of short presence (short-time presence)
- Teach-in function
- Detection sensitivity adjustable
- Extremely simple setting of the energy-saving behavior (eco/eco plus)
- Selectable control speed
- Manual override via app, universal remote control or button
- Fully or semi-automatic
- Test operation to check function and detection area
- Simple extension of the detection area through automatic integration of DALI-2 presence sensors
- "DALI-2 RS Plug" app (for iOS/Android/Windows)
- Universal remote control "theSenda B" (optional)
- Area restriction with cover clips (optional)

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	452 m² (Ø 24 m   360°)	White	theRonda P360 DALI-2 HCL UP WH	2080095	141	160	131
		Gray	theRonda P360 DALI-2 HCL UP WH + Cover 110 GR	2080095 + 9070591	141	160	131
		Black	theRonda P360 DALI-2 HCL UP WH + Cover 110 BK	2080095 + 9070851	141	160	131

Other colors available on request!

### DALI-2 Room Solution flush-mounted switching actuator



- 1-way DALI-2 flush-mounted switching actuator
- For controlling loads with 230 V AC mains voltage such as lamps, fans, pumps, etc.
- Also suitable for applications with low voltage or control of a higher-level control system (HVAC) etc.
- Compact relay module for direct control of loads via the DALI bus in accordance with IEC 62386 Part 208
- Powerful relay suitable for loads with high inrush currents such as LED lights

- Adjustable switch-on level after bus voltage failure
- The switching thresholds of the relay can be easily set via the DALI bus
- One DALI bus device and addressable in accordance with 62386 Part 102
- Supply via the DALI bus
- Simple installation in standard flush-mounted boxes

Type	Art.-No.	SD	CD
SU 1 DALI-2	4940091	141	161

### DALI-2 Room Solution flush-mounted push-button interface



- 4-way DALI-2 push-button interface flush-mounted
- 4 inputs for connecting potential-free push-buttons
- Push-buttons with the contact type "NO" or "NC" can be used, the contact type can be set in the memory bank
- 2 additional inputs for connecting variable resistors, e.g. sliders, potentiometers or various Theben temperature sensors in accordance with the IEC 62386 Part 302 standard; the sensor is selected in the memory bank

- The identification of the push-button interface is indicated by the LED
- One DALI bus device and addressable in accordance with 62386 Part 102
- Supply via the DALI bus
- Simple installation in standard flush-mounted boxes

Type	Art.-No.	SD	CD
TA 4 S DALI-2	4960094	141	161

## DALI-2 Presence detector theRonda P360-330 DALI



- Passive infrared presence detector for flush-mounted ceiling installation, DALI-2 certified
- Circular detection area 360°, Ø 24 m, (452 m²) at 3 m mounting height
- 3 channels of light DALI-2 addressable
- DALI-2 moduleschnology in accordance with IEC 62386 parts 101 and 103
- Simple, intuitive configuration of the DALI groups
- Up to 3 push-button inputs
- Use of conventional push-buttons for maximum design freedom
- Flexible assignment of the push-buttons to the desired light channel via remote control
- Operation Switching or constant light control with standby functionality
- Switch mode with dimmable lighting
- Fully or semi-automatic
- Brightness switching value or setpoint adjustable in lux
- Teach-in of the brightness switching value or setpoint via remote control or push-button
- Setting the room correction factor (automatic brightness measurement adjustment)
- Light delay time adjustable
- Adaptive 3-channel light measurement
- Short-term presence
- Self-learning run-on time
- Extremely simple setting of the energy-saving behavior (eco/eco plus)
- Selectable control speed
- Manual override via remote control or push-button
- Behavior selectable according to push-button operation (school/office)
- Light test mode
- Presence test mode
- Adjustable with remote control
- Scenes
- PIR sensitivity adjustable
- Restriction of the Detection areas
- Parallel connection of several presence detectors (master/slave or master/master), use of conventional slave devices possible, e.g. theRonda P360 Slave UP
- Optimized handling by the installer during installation, wiring and commissioning

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	452 m² (Ø 24 m   360°)	White	theRonda P360-330 DALI UP WH	2080045	141	161	131
		Gray	theRonda P360-330 DALI UP WH + Cover 110 GR	2080045 + 9070591	141	161	131
		Black	theRonda P360-330 DALI UP WH + Cover 110 BK	2080045 + 9070851	141	161	131

Other colors available on request!

## DALI-2 Presence detector theRonda DALI



- Passive infrared presence detector for flush-mounted ceiling installation, DALI-2 certified
- 1 channel light DALI-2 broadcast
- DALI-2 moduleschnology in accordance with IEC 62386 parts 101 and 103
- 1 push-button input
- Use of conventional push-buttons for maximum design freedom
- Operation Switching or constant light control with standby functionality
- Switch mode with dimmable lighting
- Fully or semi-automatic
- Brightness switching value or setpoint adjustable in lux
- Teach-in of the brightness switching value or setpoint via remote control or push-button
- Setting the room correction factor (automatic brightness measurement adjustment)
- Light delay time adjustable
- Adaptive 1-channel light measurement
- Short-term presence
- Self-learning run-on time
- Extremely simple setting of the energy-saving behavior (eco/eco plus)
- Selectable control speed
- Manual override via remote control or push-button
- Behavior selectable according to push-button operation (school/office)
- Light test mode
- Presence test mode
- Adjustable with remote control
- Scenes
- PIR sensitivity adjustable
- Restriction of the Detection areas
- Optimized handling by the installer during installation, wiring and commissioning

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	452 m² (Ø 24 m   360°)	White	theRonda P360-110 DALI UP WH	2080040	141	161	131
		Gray	theRonda P360-110 DALI UP WH + Cover 110 GR	2080040 + 9070591	141	161	131
		Black	theRonda P360-110 DALI UP WH + Cover 110 BK	2080040 + 9070851	141	161	131
	50 m² (Ø 8 m   360°)	White	theRonda S360-110 DALI UP WH	2080580	141	161	131
		Gray	theRonda S360-110 DALI UP WH + Cover 110 GR	2080580 + 9070591	141	161	131
		Black	theRonda S360-110 DALI UP WH + Cover 110 BK	2080580 + 9070851	141	161	131

Other colors available on request!

# Home and building automation

## Lighting solutions with DALI-2

### DALI-2 Presence detector thePassa DALI



- Passive infrared presence detector for flush-mounted ceiling installation, DALI-2 certified
- Rectangular detection area 360°, 30 x 4.5 m, (135 m<sup>2</sup>) at 3 m mounting height, for corridors and storage aisles, with 2 detection zones that can be switched on and off individually
- 2 channels light DALI-2 addressable or 1 channel light DALI-2 broadcast
- DALI-2 moduleschnology in accordance with IEC 62386 parts 101 and 103
- Simple, intuitive configuration of the DALI groups
- Up to 2 push-button inputs
- Use of conventional push-buttons for maximum design freedom
- Flexible assignment of the push-buttons to the desired light channel via remote control
- Operation Switching or constant light control with standby functionality
- Switch mode with dimmable lighting
- Fully or semi-automatic
- Simple integration of an external DALI relay possible via an additional group, e.g. for HVAC applications
- Brightness switching value or setpoint adjustable in lux
- Teach-in of the brightness switching value or setpoint via remote control or push-button
- Setting the room correction factor (automatic brightness measurement adjustment)
- Light delay time adjustable
- Adaptive 2-channel light measurement
- Short-term presence
- Self-learning run-on time
- Extremely simple setting of the energy-saving behavior (eco/eco plus)
- Selectable control speed
- Manual override via remote control or push-button
- Behavior selectable according to push-button operation (school/office)
- Light test mode
- Presence test mode
- Adjustable with remote control
- Scenes
- PIR sensitivity adjustable
- Restriction of the Detection areas
- Parallel connection of several presence detectors (master/slave or master/master)
- Optimized handling by the installer during installation, wiring and commissioning

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	150 m <sup>2</sup> (30,0 x 5 m)	White	thePassa P360-221 DALI UP WH	2010340	141	161	131
		Gray	thePassa P360-221 DALI UP WH + Cover 110 GR	2010340 + 9070591	141	161	131
		Black	thePassa P360-221 DALI UP WH + Cover 110 BK	2010340 + 9070851	141	161	131

Other colors available on request!

### DALI-2 Presence sensor theRonda DALI-2 S



- Passive infrared presence sensor for flush-mounted ceiling installation, DALI-2 certified
- This device provides information about "presence" and "brightness" as a DALI telegram in accordance with IEC 62386 Part 303/304
- 1 instance of presence
- Simple adjustment of the brightness measurement
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Can be parameterized via DALI bus or remote control
- The user remote controls "theSenda S" or "theSenda B" can be used for dimming or switching the lamps, controlling the blinds or for other functions via the higher-level control system
- Ceiling installation in flush-mounted box
- Ceiling installation possible with surface-mounted frame 110A (optional)
- Area restriction with cover clips (optional)
- "theSenda B" app remote control (optional) and corresponding "theSenda Plug" app (for iOS/Android)
- A multi-master application controller is required for commissioning/activation and configuration. This must support parts 101/103 and optionally 301/303/304 in accordance with IEC 62386

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	452 m <sup>2</sup> (ø 24 m   360°)	White	theRonda P360 DALI-2 S UP WH	2080090	141	161	131
		Gray	theRonda P360 DALI-2 S UP WH + Cover 110 GR	2080090 + 9070591	141	161	131
		Black	theRonda P360 DALI-2 S UP WH + Cover 110 BK	2080090 + 9070851	141	161	131
	50 m <sup>2</sup> (ø 8 m   360°)	White	theRonda S360 DALI-2 S UP WH	2080590	141	161	131
		Gray	theRonda S360 DALI-2 S UP WH + Cover 110 GR	2080590 + 9070591	141	161	131
		Black	theRonda S360 DALI-2 S UP WH + Cover 110 BK	2080590 + 9070851	141	161	131

Other colors available on request!

## DALI-2 Presence sensor thePassa P360 DALI-2 S



- Passive infrared presence sensor for flush-mounted ceiling installation, DALI-2 certified
- Rectangular detection area 360°, 30 x 4.5 m, (135 m<sup>2</sup>) at 3 m mounting height, for corridors and storage aisles, with 2 detection zones that can be switched on and off individually
- This device provides information about "presence" and "brightness" as a DALI telegram in accordance with IEC 62386 Part 303/304
- 3 instances for presence - detection area zone 1 + 2/zone 1/zone 2
- Mixed light measurement 2-way, suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- 3 instances for brightness - zone 1 + 2/zone 1/zone 2
- Simple adjustment of the brightness measurement
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Can be parameterized via DALI bus or remote control
- The user remote controls "theSenda S" or "theSenda B" can be used for dimming or switching the lamps, controlling the blinds or for other functions via the higher-level control system
- Ceiling installation in flush-mounted box
- Ceiling installation possible with surface-mounted frame 110A (optional)
- Area restriction with cover clips (optional)
- "theSenda B" app remote control (optional) and corresponding "theSenda Plug" app (for iOS/Android)
- A multi-master application controller is required for commissioning/activation and configuration. In accordance with IEC 62386, this must include parts 101/103 and optionally 301/303/304

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	150 m <sup>2</sup> (30,0 x 5 m)	White	thePassa P360 DALI-2 S UP WH	2010390	141	161	132
		Gray	thePassa P360 DALI-2 S UP WH + Cover 110 GR	2010390 + 9070591	141	161	132
		Black	thePassa P360 DALI-2 S UP WH + Cover 110 BK	2010390 + 9070851	141	161	132

Other colors available on request!

## DALI-2 Presence sensor PlanoSpot 360 DALI-2 S



- Passive infrared presence sensor for false ceilings, DALI-2 certified
- Square detection area 360°, 7 x 7 m, (49 m<sup>2</sup>) at 3 m mounting height
- This device provides information about "presence" and "brightness" as a DALI telegram in accordance with IEC 62386 Part 303/304
- 2 instances for presence - Standard/reduced detection zone
- Pivoting optics to adjust the detection area
- 3 Mixed light measurements
- 4 instances for brightness - inside/center/window/integral
- Simple adjustment of the brightness measurement
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Can be parameterized via DALI bus or remote control
- The user remote controls "theSenda S" or "theSenda B" can be used for dimming or switching the lamps, controlling the blinds or for other functions via the higher-level control system
- Flat design with interchangeable cover frames in various colors

Mounting type	Detection area diagonally	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	49 m <sup>2</sup> (7,0 x 7,0 m)	White	PlanoSpot 360 DALI-2 S DE WH	2030190	139	161	130
		Black	PlanoSpot 360 DALI-2 S DE WH + PlanoCover 76 BK	2030190 + 9070977	139	161	130
		Silver	PlanoSpot 360 DALI-2 S DE WH + PlanoCover 76 SR	2030190 + 9070978	139	161	130

Other colors available on request!

# NEW!

Now also for KNX and  
the LUXORliving smart  
home system

## LUXA 103 presence detector For indoor and outdoor use The new definition of standard

Theben LUXA 103 presence detectors are the versatile device family for efficient lighting and HVAC control in indoor and outdoor areas. The devices with a round detection area are ideal for use in individual and open-plan offices, meeting rooms, storerooms and basements as well as toilets. LUXA 103 corridor detectors with rectangular detection area control the lighting in corridors, hallways and corridors.

Thanks to colour variants in white, grey and black, the surface-mounted devices blend harmoniously into any interior or exterior design.



Ceiling installation or flush mounting



Surface mounting with gray  
surface-mounted accessories



Surface mounting with black  
surface-mounted accessories

### The highlights at a glance

- Elegant, timeless, flat design
- Convenient setting via app and remote control, only remote control or potentiometers
- Simple installation and wiring
- Surface-mounted device, combination device for recessed ceiling and flush-mounted installation
- Corridor detector in matching design language
- Device variant with second channel for HVAC control
- Integrated pushbutton input
- Protection class IP 54 for outdoor areas and damp rooms
- Perfect for high LED switching loads (at 230 V)
- Can be networked with other LUXA 103 devices or the Mura Slave (at 230 V)

Original size only 13.5 mm flat!

## Easy programming via app and remote control



### theSenda Plug app for presence and motion detectors

Programming the LUXA 103 presence detectors really is child's play. The best way to do this is to use the theSenda B remote control in combination with the free theSenda Plug app. The parameters entered are sent to theSenda B remote control via Bluetooth and transmitted from there to the detector via infrared. This allows all LUXA 103 devices to be parameterized and operated easily, quickly and safely. Do you prefer a classic approach to programming? Then simply use the integrated potentiometers to adjust the conventional devices.










The theSenda Plug app for iOS and Android displays all remote-controlled detectors from Theben. For flexible parameterization, parameter sets can be saved on a customer-specific basis, stored in parameter libraries and created and read in externally. This means that identical parameters can be set quickly, even in larger properties with many detectors.















# Presence and motion detectors

## Indoor detectors

Mounting type	Detection area diagonally	Detection area seated	Reference height	Channels	LED lamp	Protection class	Type	Page					
<b>Presence detector conventional LUXA 103 Ø 12 m</b>													
	Ceiling flush-mounted / false-ceilings	113 m <sup>2</sup> (Ø 12 m   360°)	20 m <sup>2</sup> (Ø 5 m   360°)	3 m	Light	400 W	IP 54	LUXA 103 S360-100-12 DE-UP WH 56					
					Light   Presence	400 W	IP 54	LUXA 103 S360-101-12 DE-UP WH 56					
	Ceiling-mounted	113 m <sup>2</sup> (Ø 12 m   360°)	20 m <sup>2</sup> (Ø 5 m   360°)	3 m	Light	400 W	IP 54	LUXA 103 S360-100-12 AP WH 56					
				3 m	Light   Presence	400 W	IP 54	LUXA 103 S360-101-12 AP WH 56					
<b>Presence detector conventional LUXA 103 for corridors</b>													
	Ceiling flush-mounted / false-ceilings	140 m <sup>2</sup> (28,0 x 5 m)	-	3 m	Light	400 W	IP 54	LUXA 103 S360-100-28 DE-UP WH 56					
	Ceiling-mounted	140 m <sup>2</sup> (28,0 x 5 m)	-	3 m	Light	400 W	IP 54	LUXA 103 S360-100-28 AP WH 56					
<b>Mini presence detector conventional thePiccola Ø 8 m</b>													
	False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	3 m <sup>2</sup> (Ø 2 m   360°)	2,5 m	Light	600 W	IP 55 (sensor), IP 20 (power supply unit)	thePiccola P360-100 DE WH 56					
													
<b>Presence detector conventional LUXA 104 Ø 24 m</b>													
	Ceiling flush-mounted / false-ceilings	452 m <sup>2</sup> (Ø 24 m   360°)	13 m <sup>2</sup> (Ø 4 m   360°)	3 m	2 x light	600 W	IP 40	LUXA 104 S360-200-24 DE-UP WH 57					
<b>Presence detector conventional theRonda S360 FLAT DE Ø 8 m</b>													
	False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	13 m <sup>2</sup> (Ø 4 m   360°)	3 m	Light	250 W	IP 54	theRonda S360-100 EN 57					
										Light   Presence	250 W	IP 54	theRonda S360-101 EN 57
													
<b>Presence detector conventional theRonda S360 DE Ø 8 m</b>													
	False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	13 m <sup>2</sup> (Ø 4 m   360°)	3 m	Light	250 W	IP 54	theRonda S360-100 EN 57					
										Light   Presence	250 W	IP 54	theRonda S360-101 EN 57
													
<b>Presence detector conventional theRonda S360 AP Ø 8 m</b>													
	Ceiling-mounted	50 m <sup>2</sup> (Ø 8 m   360°)	13 m <sup>2</sup> (Ø 4 m   360°)	3 m	Light	250 W	IP 54	theRonda S360-100 AP 58					
										Light   Presence	250 W	IP 54	theRonda S360-101 AP 58
													
<b>Presence detector conventional theRonda S360 UP Ø 8 m</b>													
	Ceiling flush-mounted	50 m <sup>2</sup> (Ø 8 m   360°)	13 m <sup>2</sup> (Ø 4 m   360°)	3 m	Light	600 W	IP 54	theRonda S360-100 UP 59					
										Light   Presence	600 W	IP 54	theRonda S360-101 UP 59
										-	-	IP 54	theRonda S360 Slave UP 59
													
<b>Presence detector conventional theRonda P360 UP Ø 24 m</b>													
	Ceiling flush-mounted	452 m <sup>2</sup> (Ø 24 m   360°)	28 m <sup>2</sup> (Ø 6 m   360°)	3 m	Light	600 W	IP 54	theRonda P360-100 M 59					
										Light   Presence	600 W	IP 54	theRonda P360-101 M 59
										-	-	IP 54	theRonda P360 Slave 59
													
<b>Presence detector conventional thePassa P360 UP for corridors</b>													
	Ceiling flush-mounted	150 m <sup>2</sup> (30,0 x 5 m)	-	3 m	Light   Presence	600 W	IP 54	thePassa P360-101 60					
				3 m					-	-	IP 54	thePassa P360 Slave 60	
													

## Presence and motion detectors Indoor detectors

Mounting type	Detection area diagonally	Detection area seated	Reference height	Channels	LED lamp	Protection class	Type	Page	
<b>Presence detector conventional thePrema S360 UP 7 x 7 m</b>									
	Ceiling flush-mounted	49 m <sup>2</sup> (7,0 x 7,0 m)	25 m <sup>2</sup> (5 x 5 m   360°)	3 m	Light   Presence	600 W	IP 40	thePrema S360-101 E	61
					Light	600 W	IP 40	thePrema S360-100 E	61
					-	-	IP 40	thePrema S360 Slave E	61
<b>Presence detector conventional thePrema P360 UP 9 x 9 m</b>									
	Ceiling flush-mounted	81 m <sup>2</sup> (9,0 x 9,0 m)	49 m <sup>2</sup> (7 x 7 m   360°)	3 m	Light   Presence	600 W	IP 40	thePrema P360-101 E	61
					-	-	IP 40	thePrema P360 Slave E	61
<b>Presence/motion detector conventional theMura wall mounting</b>									
	Wall	238 m <sup>2</sup> (14 x 17 m)	-	1,1 m	Light	450 W	IP 20	theMura S180-100 UP WH	62
		238 m <sup>2</sup> (14 x 17 m)	-	1,1 m	Light   Presence	450 W	IP 20	theMura S180-101 UP WH	62
		160 m <sup>2</sup> (16 x 10 m)	-	2,2 m	Light   Presence	450 W	IP 20	theMura S180-101 2.20 UP WH	62
		238 m <sup>2</sup> (14 x 17 m)	-	1,1 m	-	-	IP 20	theMura S180 Slave UP WH	62
		238 m <sup>2</sup> (14 x 17 m)	-	1,1 m	Light (with ELPA)	-	IP 20	theMura S180-100 2W UP WH	62
<b>Mini motion detector conventional thePiccola Ø 8 m</b>									
	False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	-	2,5 m	Light	600 W	IP 55 (sensor), IP 20 (power supply unit)	thePiccola S360-100 DE WH	62
<b>Motion detector conventional theMova S360 FLAT DE Ø 8 m</b>									
	False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	-	3 m	Light	250 W	IP 54	theMova S360-100 EN	63
					Light   Presence	250 W	IP 54	theMova S360-101 EN	63
<b>Motion detector conventional theMova S360 DE Ø 8 m</b>									
	False ceilings	50 m <sup>2</sup> (Ø 8 m   360°)	-	3 m	Light	250 W	IP 54	theMova S360-100 EN	63
					Light   Presence	250 W	IP 54	theMova S360-101 EN	63
<b>Motion detector conventional theMova S360 AP Ø 8 m</b>									
	Ceiling-mounted	50 m <sup>2</sup> (Ø 8 m   360°)	-	3 m	Light	250 W	IP 54	theMova S360-100 AP	64
					Light   Presence	250 W	IP 54	theMova S360-101 AP	64
<b>Motion detector conventional theMova P360 UP Ø 24 m</b>									
	Ceiling flush-mounted	452 m <sup>2</sup> (Ø 24 m   360°)	-	3 m	Light	600 W	IP 54	theMova P360-100 UP	65
<b>Motion detector conventional LUXA 103 UP/DE Ø 12 m</b>									
	Ceiling flush-mounted / false-ceilings	113 m <sup>2</sup> (Ø 12 m   360°)	-	3 m	Light	400 W	IP 40	LUXA 103-100 UA WH	65
<b>Motion detector conventional LUXA 103 Wall mounting</b>									
	Flush-mounted wall installation	100 m <sup>2</sup> (Ø 16 m   200°)	-	2 m	Light	-	IP 40	LUXA 103-200 T	65



# Presence and motion detectors

## Indoor detectors

### Presence detector conventional LUXA 103 Ø 12 m



- Passive infrared presence detector
- Circular detection area 360°, Ø 12 m (113 m²) at 3 m mounting height
- Extension of the Detection areas through parallel connection
- Connection option for push-button for manual switching
- Operation as fully or semi-automatic possible
- One directional brightness measurement (mixed light measurement)
- Teach-in function, pulse function, test function, staircase lighting function
- Ready for operation immediately due to factory presetting
- Changing values and settings is possible with potentiometers and with one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B
- Restriction of the detection area with cover clips
- Also suitable for outdoor applications, by changing the installation location the detection area is reduced to Ø 8 m

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted/ false-ceilings	113 m² (Ø 12 m   360°)	Light	400 W	White	LUXA 103 S360-100-12 DE-UP WH	1030052	141	162	132
		Light   Presence	400 W	White	LUXA 103 S360-101-12 DE-UP WH	1030053	141	162	132
Ceiling-mounted	113 m² (Ø 12 m   360°)	Light	400 W	White	LUXA 103 S360-100-12 AP WH	1030062	141	162	132
		Light   Presence	400 W	White	LUXA 103 S360-101-12 AP WH	1030063	141	162	132

### Presence detector conventional LUXA 103 for corridors



- Passive infrared presence detector
- Rectangular detection area 360°, 28 x 5 m (140 m²) at 3 m mounting height
- 1 channel light (relay 230 V)
- Extension of the Detection areas through parallel connection
- Connection option for push-button for manual switching
- Operation as fully or semi-automatic possible
- One directional brightness measurement (mixed light measurement)
- Teach-in function, pulse function, test function, staircase lighting function
- Ready for operation immediately due to factory presetting
- Changing values and settings is possible with potentiometers and with one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B
- Restriction of the detection area with cover clips
- Also suitable for outdoor applications, the detection area is reduced to 24 m by changing the installation location

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted/ false-ceilings	140 m² (28 x 5 m   360°)	Light	400 W	White	LUXA 103 S360-100-28 DE-UP WH	1030072	141	162	132
Ceiling-mounted	140 m² (28 x 5 m   360°)	Light	400 W	White	LUXA 103 S360-100-28 AP WH	1030082	141	162	132

### Mini presence detector conventional thePiccola Ø 8 m



- Passive infrared presence detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m²) at 2.5 m mounting height
- 1 channel light (relay 230 V)
- Automatic presence and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as fully or semi-automatic, switchable
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Connection option for push-button for manual switching
- Extension of the Detection areas through master/slave switching
- Ready for operation immediately due to factory presetting
- Ceiling cut-out Ø 34 - 36 mm
- Can be remote-controlled with optional remote controls theSenda B, theSenda P and theSenda S

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	600 W	White	thePiccola P360-100 DE WH	2090200	142	162	130
				Black	thePiccola P360-100 DE WH + Cover 46 BK	2090200 + 9070797	142	162	130

Other colors available on request!

### Presence detector conventional LUXA 104 Ø 24 m



- Presence detector (PIR) for flush-mounting or false ceilings
- Circular detection area 360°, Ø 24 m (452 m²) at 3 m mounting height
- Switching output 2 channels light with 2 light measurements
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as fully or semi-automatic, switchable
- Adjustable brightness switching value
- Teach-in function
- Shortening of the follow-up time in case of short presence (short-time presence)
- Connection option for push-buttons
- Pulse function for Staircase time switches
- Restriction of the Detection areas using clips
- Detection sensitivity adjustable
- Extension of the detection area by master/slave or master/master connection, a maximum of 10 detectors can be connected in parallel
- Ceiling installation possible with Surface frame
- Ready for operation immediately due to factory presetting
- Optional app remote control theSenda B, service remote control theSenda P and user remote control theSenda S

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted/ false-ceilings	452 m² (Ø 24 m   360°)	2 x light	600 W	White	LUXA 104 S360-200-24 DE-UP WH	1040200	142	162	131

### Presence detector conventional theRonda S360 FLAT DE Ø 8 m



- Passive infrared presence detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 minutes)
- The values and settings can be changed using one of these optional remote controls:
- App/universal remote control theSenda B
- Service remote control theSenda P
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	250 W	White	theRonda S360-100 FLAT DE WH	2080540	142	163	131
				Gray	theRonda S360-100 FLAT DE WH + Cover FLAT 85 GR	2080540 + 9070597	142	163	131
				Black	theRonda S360-100 FLAT DE WH + Cover FLAT 85 BK	2080540 + 9070853	142	163	131
		Light   Presence	250 W	White	theRonda S360-101 FLAT DE WH	2080545	142	163	131
				Gray	theRonda S360-101 FLAT DE WH + Cover FLAT 85 GR	2080545 + 9070597	142	163	131
				Black	theRonda S360-101 FLAT DE WH + Cover FLAT 85 BK	2080545 + 9070853	142	163	131

Other colors available on request!

### Presence detector conventional theRonda S360 DE Ø 8 m



- Passive infrared presence detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 minutes)
- The values and settings can be changed using one of these optional remote controls:
- App/universal remote control theSenda B
- Service remote control theSenda P
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	250 W	White	theRonda S360-100 DE WH	2080560	142	163	131
				Gray	theRonda S360-100 DE WH + Cover 85 GR	2080560 + 9070594	142	163	131
				Black	theRonda S360-100 DE WH + Cover 85 BK	2080560 + 9070852	142	163	131
		Light   Presence	250 W	White	theRonda S360-101 DE WH	2080565	142	163	131
				Gray	theRonda S360-101 DE WH + Cover 85 GR	2080565 + 9070594	142	163	131
				Black	theRonda S360-101 DE WH + Cover 85 BK	2080565 + 9070852	142	163	131

Other colors available on request!

# Presence and motion detectors

## Indoor detectors

### Presence detector conventional theRonda S360 AP Ø 8 m



- Passive infrared presence detector for ceiling mounting
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 minutes)
- The values and settings can be changed using one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling-mounted	50 m² (Ø 8 m   360°)	Light	250 W	White	theRonda S360-100 AP WH	2080550	139	163	131
				Gray	theRonda S360-100 AP GR	2080551	139	163	131
				Black	theRonda S360-100 AP BK	2080552	139	163	131
		Light   Presence	250 W	White	theRonda S360-101 AP WH	2080555	139	163	131
				Gray	theRonda S360-101 AP GR	2080556	139	163	131
				Black	theRonda S360-101 AP BK	2080557	139	163	131

Other colors available on request!

### Presence detector conventional theRonda S360 DE with cable Ø 8 m



- Presence detector (PIR), with pre-assembled cable and Wieland GSTi18 connectors, cable length 1.50 meters
- 360° circular detection area, up to Ø 9 m (64m²)
- 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 a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 min.)
- One of these optional remote controls is required to change the values and settings:
  - SendaPro management remote control
  - Service remote control theSenda P
  - Optional user remote control: theSenda

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	250 W	White	theRonda S360-100 WH GST	2080570	-	163	131
				Gray	theRonda S360-100 WH GST + Cover 85 GR	2080570 + 9070594	-	163	131
				Black	theRonda S360-100 WH GST + Cover 85 BK	2080570 + 9070852	-	163	131

Other colors available on request!



### Presence detector conventional theRonda S360 UP Ø 8 m



- Passive infrared presence detector for flush-mounted ceiling installation
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as fully or semi-automatic, switchable
- Brightness switching value adjustable, teach-in function
- Shortening of the follow-up time in case of short presence (short-time presence)
- Connection option for push-buttons or
- Switch for manual switching with automatic detection Button/switch
- Pulse function for Staircase time switches
- Restriction of the Detection areas using clips
- Adjustable sensitivity
- Ready for operation immediately due to factory presetting
- Test operation to check function and detection area
- Ceiling installation in flush-mounted box
- Ceiling installation possible with Surface frame
- The values and settings can be changed using one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	50 m² (Ø 8 m   360°)	Light	600 W	White	theRonda S360-100 UP WH	2080520	141	163	131
				Gray	theRonda S360-100 UP WH + Cover 110 GR	2080520 + 9070591	141	163	131
				Black	theRonda S360-100 UP WH + Cover 110 BK	2080520 + 9070851	141	163	131
		Light   Presence	600 W	White	theRonda S360-101 UP WH	2080525	141	163	131
				Gray	theRonda S360-101 UP WH + Cover 110 GR	2080525 + 9070591	141	163	131
				Black	theRonda S360-101 UP WH + Cover 110 BK	2080525 + 9070851	141	163	131
		Slave	-	White	theRonda S360 Slave UP WH	2080530	141	163	131
				Gray	theRonda S360 Slave UP WH + Cover 110 GR	2080530 + 9070591	141	163	131
				Black	theRonda S360 Slave UP WH + Cover 110 BK	2080530 + 9070851	141	163	131

Other colors available on request!

### Presence detector conventional theRonda P360 UP Ø 24 m



- Passive infrared presence detector for flush-mounted ceiling installation
- Circular detection area 360°, Ø 24 m, (452 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as fully or semi-automatic, switchable
- Brightness switching value adjustable, teach-in function
- Shortening of the follow-up time in case of short presence (short-time presence)
- Connection option for push-buttons or
- Switch for manual switching with automatic detection Button/switch
- Pulse function for Staircase time switches
- Restriction of the Detection areas using clips
- Adjustable sensitivity
- Ready for operation immediately due to factory presetting
- Test operation to check function and detection area
- Ceiling installation in flush-mounted box
- Ceiling installation possible with Surface frame
- The values and settings can be changed using one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Number of channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	452 m² (Ø 24 m   360°)	Light	600 W	White	theRonda P360-100 M UP WH	2080020	141	164	131
				Gray	theRonda P360-100 M UP WH + Cover 110 GR	2080020 + 9070591	141	164	131
				Black	theRonda P360-100 M UP WH + Cover 110 BK	2080020 + 9070851	141	164	131
		Light   Presence	600 W	White	theRonda P360-101 M UP WH	2080025	141	163	131
				Gray	theRonda P360-101 M UP WH + Cover 110 GR	2080025 + 9070591	141	163	131
				Black	theRonda P360-101 M UP WH + Cover 110 BK	2080025 + 9070851	141	163	131
		Slave	-	White	theRonda P360 Slave UP WH	2080030	141	163	131
				Gray	theRonda P360 Slave UP WH + Cover 110 GR	2080030 + 9070591	141	163	131
				Black	theRonda P360 Slave UP WH + Cover 110 BK	2080030 + 9070851	141	163	131

Other colors available on request!

# Presence and motion detectors

## Indoor detectors

### Presence detector conventional theRonda P360 DE with cable Ø 24 m



- Passive infrared motion detector for false ceilings
- With pre-assembled cable and Wieland GSTi18 connectors, cable length 1.50 meters
- 360° circular detection area, 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
- Brightness switching value adjustable, teach-in function
- Shortening of the follow-up time in case of short presence (short-time presence)
- Pulse function for Staircase time switches
- Restriction of the Detection areas using clips
- Adjustable sensitivity
- Ready for operation immediately due to factory presetting
- Test operation to check function and detection area
- User remote control theSenda S, management remote control SendaPro (optional)

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	452 m² (Ø 24 m   360°)	Light	600 W	White	theRonda P360-100 WH GST	2080010	-	164	131

Other colors available on request!

### Presence detector conventional thePassa P360 UP for corridors



- Passive infrared presence detector for flush-mounted ceiling installation
- Rectangular detection area 360°, 30 x 4.5 m (135 m²) at 3 m mounting height
- 1 channel light (relay 230 V) and 1 channel presence (relay potential-free for HVAC control)
- 2 separate detection zones
- Automatic motion and brightness-dependent control for lighting and motion-dependent control for HVAC
- Mixed light measurement 2-way suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as fully or semi-automatic, switchable
- Brightness switching value adjustable, teach-in function
- Shortening of the follow-up time in case of short presence (short-time presence)
- Setting the room correction factor (automatic brightness measurement adjustment)
- Connection option for push-button or switch for manual switching with automatic push-button/switch detection
- Pulse function for Staircase time switches
- Switch-on delay and run-on time can also be set separately for presence channel
- Restriction of the Detection areas using clips
- Adjustable sensitivity
- Ready for operation immediately due to factory presetting
- Test operation to check function and detection area
- Extension of the Detection areas using master/slave or master/master-
- Switching, a maximum of 10 detectors can be connected in parallel
- Ceiling installation in flush-mounted box
- Ceiling installation possible with Surface frame
- Changing values and settings is possible with potentiometers and with one of these optional remote controls:
- App/universal remote control theSenda B
- Service remote control theSenda P
- Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	150 m² (30,0 x 5 m)	Light   Presence	600 W	White	thePassa P360-101 UP WH	2010300	141	163	132
				Gray	thePassa P360-101 UP WH + Cover 110 GR	2010300 + 9070591	141	163	132
				Black	thePassa P360-101 UP WH + Cover 110 BK	2010300 + 9070851	141	163	132
		Slave	-	White	thePassa P360 Slave UP WH	2010330	141	163	132
				Gray	thePassa P360 Slave UP WH + Cover 110 GR	2010330 + 9070591	141	163	132
				Black	thePassa P360 Slave UP WH + Cover 110 BK	2010330 + 9070851	141	163	132

Other colors available on request!

### Presence detector conventional thePrema S360 UP 7 x 7 m



- Passive infrared presence detector for flush-mounted ceiling installation
- Square detection area 360°, 7 x 7 m (49 m<sup>2</sup>) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as fully or semi-automatic, switchable
- Brightness switching value adjustable, teach-in function
- Self-learning run-on time
- Shortening of the follow-up time in case of short presence (short-time presence)
- Connection option for push-button or switch for manual switching with automatic push-button/switch detection
- Pulse function for Staircase time switches
- Simple setting of the energy-saving behavior with the "eco plus" function
- Staircase lighting function
- Ready for operation immediately due to factory presetting
- Test operation to check function and detection area
- Extension of the detection area by master/slave or master/master connection, a maximum of 10 detectors can be connected in parallel
- Ceiling installation in flush-mounted box
- Ceiling installation possible with Surface frame
- Changing values and settings is possible with potentiometers and with one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	49 m <sup>2</sup> (7,0 x 7,0 m)	Light   Presence	600 W	White	thePrema S360-101 E UP WH	2070605	142	163	130
				Gray	thePrema S360-101 E UP GR	2070606	142	163	130
				Black	thePrema S360-101 E UP BK	2070607	142	163	130
		Light	600 W	White	thePrema S360-100 E UP WH	2070600	142	164	130
				Gray	thePrema S360-100 E UP GR	2070601	142	164	130
				Black	thePrema S360-100 E UP BK	2070602	142	164	130
		Slave	-	White	thePrema S360 Slave E UP WH	2070630	142	164	130
				Gray	thePrema S360 Slave E UP GR	2070631	142	164	130
				Black	thePrema S360 Slave E UP BK	2070632	142	164	130

Other colors available on request!

### Presence detector conventional thePrema P360 UP 9 x 9 m



- Passive infrared presence detector for flush-mounted ceiling installation
- Square detection area 360°, 9 x 9 m (81 m<sup>2</sup>) at 3 m mounting height
- 1 channel light (relay 230 V) and 1 channel presence (relay potential-free for HVAC control)
- Automatic motion and brightness-dependent control for lighting and motion-dependent control for HVAC
- 3-way mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Light measurement switchable to spot or Width measurement
- Operation as fully or semi-automatic, switchable
- Brightness switching value adjustable, teach-in function
- Self-learning run-on time
- Shortening of the follow-up time in case of short presence (short-time presence)
- Pulse function for Staircase time switches
- Connection option for push-button or switch for manual switching with automatic push-button/switch detection
- Room monitoring with selective motion detection
- Switch-on delay and run-on time can also be set separately for presence channel
- Simple setting of the energy-saving behavior with the "eco plus" function
- Flexible selection of light and presence relay operating mode with theSenda B remote control
- Ready for operation immediately due to factory presetting
- Test mode for checking function and Detection areas, staircase lighting function
- Extension of the detection area by master/slave or master/master connection, a maximum of 10 detectors can be connected in parallel
- Ceiling installation possible with Surface frame
- Changing values and settings is possible with potentiometers and with one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

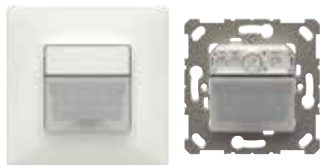
Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	81 m <sup>2</sup> (9,0 x 9,0 m)	Light   Presence	600 W	White	thePrema P360-101 E UP WH	2070105	142	163	130
				Gray	thePrema P360-101 E UP GR	2070106	142	163	130
				Black	thePrema P360-101 E UP BK	2070107	142	163	130
		Slave	-	White	thePrema P360 Slave E UP WH	2070130	142	164	130
				Gray	thePrema P360 Slave E UP GR	2070131	142	164	130
				Black	thePrema P360 Slave E UP BK	2070132	142	164	130

Other colors available on request!

# Presence and motion detectors

## Indoor detectors

### Presence/motion detector conventional theMura wall mounting



- Passive infrared presence/motion detector for wall mounting
- Rectangular detection area 170°
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Integrated pushbutton (can be deactivated)
- Available with and without cover frame
- Also suitable for many common switch ranges (with accessories)
- Range restriction in the scope of delivery
- **theMura S180-100 UP**
- Motion detector (PIR)
- 1 channel light (relay 230 V)
- Operation as fully or semi-automatic
- Brightness switching value adjustable, teach-in function
- Overrun time adjustable
- Staircase lighting function, long-term function
- Extension of the Detection areas by master/slave circuit, max. 6 detectors
- **theMura S180-101 UP/theMura S180-101 2.20 UP**
- Presence detector (PIR)
- 1 channel light (relay 230 V) and 1 channel presence (relay potential-free for HVAC control)
- Operation as fully or semi-automatic
- Connection option for external pushbutton
- Brightness switching value adjustable, teach-in function
- Automatic adjustment of the brightness measurement
- Switch-on delay and run-on time can also be set separately for presence channel
- Shortening of the follow-up time in case of short presence (short-time presence)
- Staircase lighting function, long-term function
- Adjustable sensitivity
- Integrated orientation light
- Acoustic function
- Extension of the detection area possible by master/slave connection with further theMura detectors, max. 6 detectors
- Changing values and settings is possible with potentiometers and with one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B
- **theMura S180 Slave UP**
- Slave version for:
  - theMura S180-100 UP WH
  - theMura S180-100 B UP
  - theMura S180-101 UP WH
  - theMura S180-101 B UP
- **theMura S180-100 2W UP**
- Motion detector (PIR)
- 1 channel light, only for controlling a Staircase time switch from Theben (ELPA, 4-wire circuit), no load switchable
- Ideal for replacing existing push-buttons (no N conductor required)
- Brightness switching value adjustable, teach-in function
- Run-on time is set on the Staircase time switches
- Parallel connection of up to 12 detectors to one ELPA possible

Mounting type	With Theben frame	Detection area diagonally	Mounting height	Channels	LED lamp	Product type	Colour	Type	Art.-No.	SD	CD	DA
Wall	✓	238 m² (14 x 17 m)	0,8-1,2 m	Light	450 W	Motion detector	White	theMura S180-100 UP WH	2060650	142	164	130
				Light   Presence	450 W	Presence detector	White	theMura S180-101 UP WH	2060655	142	165	130
		160 m² (16 x 10 m)	2,2 m	Light   Presence	450 W	Presence detector	White	theMura S180-101 2.20 UP WH	2060658	142	165	130
		238 m² (14 x 17 m)	0,8-1,2 m	Slave	-	Motion detector	White	theMura S180 Slave UP WH	2060660	143	165	130
				Light (with ELPA)	-	Motion detector	White	theMura S180-100 2W UP WH	2060670	143	165	130
		-	238 m² (14 x 17 m)	0,8-1,2 m	Light	450 W	Motion detector	-	theMura S180-100 B UP	2060750	142	164
	Light   Presence				450 W	Presence detector	-	theMura S180-101 B UP	2060755	142	165	130
	Slave				-	Motion detector	-	theMura S180 Slave B UP	2060760	143	165	130
	Light (with ELPA)				-	Motion detector	-	theMura S180-100 2W B UP	2060770	143	165	130

### Mini motion detector conventional thePiccola Ø 8 m



- Passive infrared motion detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m²) at 2.5 m mounting height
- 1 channel light (relay 230 V)
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Extension of the Detection areas through master/slave switching
- Test operation to check function and detection area
- Ceiling cut-out Ø 34 - 36 mm
- Ready for operation immediately due to factory presetting

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	600 W	White	thePiccola S360-100 DE WH	1060200	142	165	133
				Black	thePiccola S360-100 DE WH + Cover 46 BK	1060200 + 9070797	142	165	133

### Motion detector conventional theMova S360 FLAT DE Ø 8 m



- Passive infrared motion detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 minutes)
- The values and settings can be changed using one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	250 W	White	theMova S360-100 FLAT DE WH	1030540	142	163	133
				Gray	theMova S360-100 FLAT DE WH + Cover FLAT 85 GR	1030540 + 9070597	142	163	133
				Black	theMova S360-100 FLAT DE WH + Cover FLAT 85 BK	1030540 + 9070853	142	163	133
		Light   Presence	250 W	White	theMova S360-101 FLAT DE WH	1030545	142	163	133
				Gray	theMova S360-101 FLAT DE WH + Cover 85 GR	1030545 + 9070594	142	163	133
				Gray	theMova S360-101 FLAT DE WH + Cover FLAT 85 GR	1030545 + 9070597	142	163	133

Other colors available on request!

### Motion detector conventional theMova S360 DE Ø 8 m



- Passive infrared motion detector for false ceilings
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 minutes)
- The values and settings can be changed using one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	250 W	White	theMova S360-100 DE WH	1030560	142	163	133
				Gray	theMova S360-100 DE WH + Cover 85 GR	1030560 + 9070594	142	163	133
				Black	theMova S360-100 DE WH + Cover 85 BK	1030560 + 9070852	142	163	133
		Light   Presence	250 W	White	theMova S360-101 DE WH	1030565	142	163	133
				Gray	theMova S360-101 DE WH + Cover 85 GR	1030565 + 9070594	142	163	133
				Black	theMova S360-101 DE WH + Cover 85 BK	1030565 + 9070852	142	163	133

Other colors available on request!



# Presence and motion detectors

## Indoor detectors

### Motion detector conventional theMova S360 AP Ø 8 m



- Passive infrared motion detector for ceiling mounting AP
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Test operation to check function and detection area
- Detection sensitivity adjustable
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 minutes)
- The values and settings can be changed using one of these optional remote controls:
  - App/universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S/theSenda B

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling-mounted	50 m² (Ø 8 m   360°)	Light	250 W	White	theMova S360-100 AP WH	1030550	139	163	133
				Gray	theMova S360-100 AP GR	1030551	139	163	133
				Black	theMova S360-100 AP BK	1030552	139	163	133
		Light   Presence	250 W	White	theMova S360-101 AP WH	1030555	139	163	133
				Gray	theMova S360-101 AP GR	1030556	139	163	133
				Gray	theMova S360-101 AP BK	1030557	139	163	133

Other colors available on request!

### Motion detector conventional theMova S360 DE with cable Ø 8 m



- Passive infrared motion detector for ceiling mounting EN
- With pre-assembled cable and Wieland GSTi18 connectors, cable length 1.50 meters
- Circular detection area 360°, Ø 8 m, (50 m²) at 3 m mounting height
- 1 channel light (relay 230 V)
- Automatic motion and brightness-dependent control for lighting
- Daylight sensor mode for brightness-dependent control of the lighting, switchable via app
- Mixed light measurement
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Detection sensitivity adjustable
- Test operation to check function and detection area
- Ready for immediate operation due to factory default setting (brightness switching value 300 lux, run-on time 10 min.)
- One of these optional remote controls is required to change the values and settings:
  - Universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control: theSenda S

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
False ceilings	50 m² (Ø 8 m   360°)	Light	250 W	White	theMova S360-100 WH GST	1030570	-	163	133
				Gray	theMova S360-100 WH GST + Cover 85 GR	1030570 + 9070594	-	163	133
				Black	theMova S360-100 WH GST + Cover 85 BK	1030570 + 9070852	-	163	133

Other colors available on request!

### Motion detector conventional theMova P360 UP Ø 24 m



- Passive infrared motion detector for flush ceiling mounting
- Circular detection area 360°, Ø 24 m, (452 m²) at 3 m mounting height
- 1 channel light (relay 230 V)
- Restriction of the 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
- Operation as a fully automatic device
- Brightness switching value adjustable, teach-in function
- Pulse function for Staircase time switches
- Overrun time adjustable
- Detection sensitivity adjustable
- Ready for operation immediately due to factory presetting
- Test operation to check function and detection area
- Ceiling installation in flush-mounted box
- Ceiling installation possible with surface-mounted frame, IP 54 (optional)
- User remote control theSenda S (optional)
- Universal remote control theSenda B (optional)
- Installation remote control theSenda P (optional)

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted	452 m² (Ø 24 m   360°)	Light	600 W	White	theMova P360-100 UP WH	1030600	141	165	133
				Gray	theMova P360-100 UP WH + Cover 110 GR	1030600 + 9070591	141	165	133
				Black	theMova P360-100 UP WH + Cover 110 BK	1030600 + 9070851	141	165	133

Other colors available on request!

### Motion detector conventional LUXA 103 UP/DE Ø 12 m



- Passive infrared motion detector
- Circular detection area 360°, Ø 12 m, (113 m²) at 3 m mounting height
- 1 channel light (relay 230 V) with acoustic function
- Activation by PIR sensor, deactivation by microphone
- Ceiling mounting, flush or recessed ceiling mounting with removable clamps
- Surface mounting with accessories Surface-mounted frame
- Mixed light measurement suitable for controlling fluorescent, incandescent and halogen lamps
- Zero-cross switching for relay-saving switching and high lamp loads
- Cover clips to restrict the area
- Immediate commissioning possible thanks to factory presetting
- No unintentional adjustment due to concealed adjustment elements
- Brightness switching value and run-on time adjustable
- Sensitivity can be reduced to restrict the Detection areas
- Pulse function
- Test function for checking the detection area

Mounting type	Detection area diagonally	Channels	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Ceiling flush-mounted/ false-ceilings	113 m² (Ø 12 m   360°)	Light	400 W	White	LUXA 103-100 UA WH	1030045	143	166	133

### Motion detector conventional LUXA 103 wall mounting



- Passive infrared motion detector for wall mounting
- Semicircular detection area 200°, Ø 16 m, (100 m²)
- 1 channel light (Triac 230 V), 2-wire connection ideal for retrofitting
- Brand switch compatible, replaces conventional light switches
- Mixed light measurement suitable for incandescent and halogen lamps only
- Area delimitation with cover clip
- Manual AUTO/ON/OFF switching by simply sliding the hinged cover
- Teach-in of the current brightness value
- Switch-off warning by dimming down 15 seconds before the light is switched off
- Immediate commissioning possible thanks to factory presetting
- No unintentional adjustment due to concealed adjustment elements
- Brightness switching value and run-on time adjustable
- Sensitivity can be reduced to restrict the Detection areas
- Pulse function
- Test function for checking the detection area

Mounting type	Detection area diagonally	Channels	Colour	Type	Art.-No.	SD	CD	DA
Wall	100 m² (Ø 16 m)	Light	White	LUXA 103-200 T	1030031	143	166	133








## A clear line Motion detectors theLuxa R, S and P

Most people won't even notice them. Or only when the light comes on, radiating safety and showing everyone the way: theLuxa motion detectors from Theben.

They make a significant contribution to saving energy and increasing comfort and safety. The light is automatically switched on when and only when it is needed. theLuxa always shows its best side - whether as a white (WH) or black (BK) variant. On whatever wall. And thanks to the swivel joint of some versions, even on the ceiling.



theLuxa is available in the standard versions R180, S150/S180 and S360 or as a remote-controlled performance version with potential-free contacts for simple, time-saving and therefore cost-effective integration into KNX building system technology. Further information and technical data can be found on the following pages.

	Mounting type	Detection angle	Detection area	LED lamp	Light switch-off delay	Remote controllable	Type	Page
<b>Motion detector 12 m, 180°, theLuxa E180</b>								
	Wall mounting, exterior	180°	12 m	150 W	5 s - 15 min	–	theLuxa E180	68
<b>Motion detector 12 m, 180°, theLuxa R180</b>								
	Wall mounting, exterior	180°	12 m	500 W	2 s - 30 min	–	theLuxa R180	68
<b>Motion detector 12 m, 150/180°, theLuxa S150/S180</b>								
	Wall mounting, exterior	150°	12 m	500 W	1 s - 20 min	–	theLuxa S150/180	68
		180°	12 m	500 W	1 s - 20 min	–	theLuxa S150/180	68
<b>Motion detector 32 m, 360°, theLuxa S360</b>								
	Wall and ceiling mounting, exterior	360°	Ø 32 m	500 W	1 s - 20 min	–	theLuxa S360	69
<b>Motion detector 32 m, 220/300°, theLuxa P220/P300</b>								
	Wall and ceiling mounting, exterior	220°	Ø 32 m	600 W	1 s - 20 min	✓	theLuxa P220	69
		300°	Ø 32 m	600 W	1 s - 20 min	✓	theLuxa P300	69



# Motion detectors

## Outdoor detectors

### Motion detector conventional theLuxa E180 12 m



- Motion detector (PIR) for wall mounting in outdoor areas
- Semicircular detection area 180°, Ø 12 m at 2.5 m mounting height
- Switching output 1 channel light relay 230 V
- Brightness switching value and follow-up time can be set on the outdoor detector
- Mixed light measurement suitable for controlling fluorescent, incandescent and halogen lamps, as well as LEDs
- Test function for checking the detection area
- Single-handed plug-in base mounting
- Immediate commissioning possible thanks to presetting
- Area limitation outdoor motion detector with stickers

Mounting type	Protection type	Detection angle	Detection area	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Wall mounting, exterior	IP 55	180°	12 m	150 W	White	theLuxa E180 WH	1010205	143	166	134
					Black	theLuxa E180 BK	1010206	143	166	134

### Motion detector conventional theLuxa R180 12 m



- Motion detector (PIR) for wall mounting in outdoor areas
- Semicircular detection area 180°, Ø 12 m at 2.5 m mounting height
- Switching output 1 channel light relay 230 V
- Secure protection against tampering thanks to robust housing design
- Concealed controls under the secured front cover
- Brightness switching value and follow-up time can be set on the outdoor detector
- Mixed light measurement suitable for controlling fluorescent, incandescent and halogen lamps, as well as LEDs
- Zero-cross switching for relay-saving switching and high lamp loads
- Test function for checking the detection area
- Mounting on flush-mounted box (60 mm) possible
- Single-handed plug-in base mounting
- Immediate commissioning possible thanks to presetting
- Dummy terminal for protective conductor
- Area limitation outdoor motion detector with cover clip

Mounting type	Protection type	Detection angle	Detection area	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Wall mounting, exterior	IP 55	180°	12 m	500 W	White	theLuxa R180 WH	1010200	143	166	134
					Black	theLuxa R180 BK	1010201	143	166	134

### Motion detector conventional theLuxa S150/180 12 m



- Motion detector (PIR) for wall mounting in outdoor areas
- Semi-circular detection area, 12 m at 2.5 m mounting height
- Switching output 1 channel light (relay 230 V)
- A mixed light measurement
- Manual override, with control via breaker button
- Sensor head can be rotated and tilted in 2 directions
- Zero-crossing circuit for relay-protecting switching
- Teach-in function, pulse function, test function
- Ready for operation immediately due to factory presetting
- Mounting type: surface-mounted, also on EU flush-mounted box, corner mounting possible
- Single-handed plug-in base mounting

Mounting type	Protection type	Detection angle	Detection area	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Wall mounting, exterior	IP 55	150°	12 m	500 W	White	theLuxa S150 WH	1010500	143	166	134
		150°	12 m	500 W	Black	theLuxa S150 BK	1010501	143	166	134
		180°	12 m	500 W	White	theLuxa S180 WH	1010505	143	166	134
		180°	12 m	500 W	Black	theLuxa S180 BK	1010506	143	166	134

### Motion detector conventional theLuxa S360 Ø 32 m



- Motion detector (PIR) for wall/ceiling mounting in outdoor areas
- Circular detection area 360°, Ø 32 m at 2.5 m mounting height
- Switching output 1 channel light relay 230 V
- Sensor head Outdoor detector can be rotated horizontally by ± 90°, tilted downwards by 45° and upwards by 90°
- Brightness switching value and run-on time adjustable
- Sensitivity can be reduced to restrict the Detection areas
- Area delimitation with cover clip
- Mixed light measurement suitable for controlling fluorescent, incandescent and halogen lamps, as well as LEDs
- Zero-cross switching for relay-saving switching and high lamp loads
- Teach-in of the current brightness value on the outdoor motion detector
- Pulse function
- Test function for checking the detection area
- Mounting on flush-mounted box (60 mm) possible
- Single-handed plug-in base mounting
- Immediate commissioning possible thanks to presetting
- Adjustment elements mounted in a protected position
- Dummy terminal for protective conductor
- Corner mounting bracket included in the scope of delivery

Mounting type	Protection type	Detection angle	Detection area	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Wall and ceiling mounting, exterior	IP 66	360°	Ø 32 m	500 W	White	theLuxa S360 WH	1010510	143	167	134
					Black	theLuxa S360 BK	1010511	143	167	134

### Motion detector conventional theLuxa P220/P300 Ø 32 m



- Motion detector (PIR) for wall/ceiling mounting in outdoor areas
- Round/semicircular detection area, Ø 32 m at 2.5 m mounting height
- Switching output 1 channel light (relay 230 V)
- A mixed light measurement
- Manual override, with control via breaker button
- Sensor head can be rotated and tilted in 2 directions
- Tungsten forward contact for relay-saving switching
- Teach-in function, pulse function, test function, twilight function
- Ready for operation immediately due to factory presetting
- Adjustable detection sensitivity
- Mounting type: surface-mounted, also on EU flush-mounted box, corner mounting possible
- Single-handed plug-in base mounting
- Setting via remote control and/or potentiometer
- Restriction of the detection area with cover clips

Mounting type	Protection type	Detection angle	Detection area	LED lamp	Colour	Type	Art.-No.	SD	CD	DA
Wall and ceiling mounting, exterior	IP 55	220°	Ø 32 m	600 W	White	theLuxa P220 WH	1010605	140	167	134
		220°	Ø 32 m	600 W	Black	theLuxa P220 BK	1010606	140	167	134
		300°	Ø 32 m	600 W	White	theLuxa P300 WH	1010610	140	167	135
		300°	Ø 32 m	600 W	Black	theLuxa P300 BK	1010611	140	167	135










# Uniform & multifaceted LED spotlight theLeda D



Indirect lighting on the house façade, atmospheric lighting for the garden, front door or patio - theLeda D allows you to do both. With its matt anodized aluminium housing and pleasant warm white light, the LED light cuts a fine figure anywhere.



The theLeda D family is multifaceted. You can choose between direct lighting with LED spotlights, indirect lighting with up and down lights or two bollard lights of different lengths. Also available with a practical socket on the back. And the great thing is that no matter which model you choose, you will always benefit from a uniform look on your home. All theLeda D models are available with or without an integrated motion detector. Further information and technical data from page 72.

	Mounting type	Detection angle	Detection area	Colour temperature	Service life	Remote controllable	Type	Page
<b>LED spotlight modularly expandable theLeda B</b>								
	Wall and ceiling mounting	(180°)*	(12 m)*	5000 K	L80/B10/52,000 h	(√)**	theLeda B20L	72
							theLeda B30L	72
				3000 K, warm white	L80/B10/51,000 h	(√)**	theLeda B50L	72
							theLeda B100L	72
<b>LED spotlight with motion detector theLeda S</b>								
	Wall mounting	180°	10 m	4000 K, neutral white	L80/B10/45,000 h   L70/B50/50,000 h	– –	theLeda S8-100	72
							theLeda S17-100	72
<b>LED spotlight theLeda S</b>								
	Wall mounting	–	–	4000 K, neutral white	L80/B10/45,000 h   L70/B50/50,000 h	– –	theLeda S8-100L	73
							theLeda S17-100L	73
<b>LED light with motion detector theLeda D</b>								
	Wall mounting	180°	10 m	3000 K, warm white	L80/B10/50,000 h	√	theLeda D S AL	73
							theLeda D SU AL	73
							theLeda D U AL	73
							theLeda D UD AL	73
	Floor	180°	6 m	3000 K, warm white		√	theLeda D B AL	74
							theLeda D B plus AL	74
							theLeda D B plus S AL	74
<b>LED luminaire theLeda D</b>								
	Wall mounting	–	–	3000 K, warm white	L80/B10/50,000 h	–	theLeda D SL AL	74
							theLeda D SUL AL	74
							theLeda D UL AL	74
							theLeda D UDL AL	74
	Floor	–	–	3000 K, warm white	L80/B10/50,000 h	–	theLeda D BL AL	74
							theLeda D BL plus AL	74

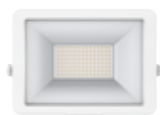
\* When using the optional motion detector module

\*\* When using the optional remote-controlled motion detector module

# Motion detectors/LED spotlights

## LED spotlights

### LED spotlight modularly expandable theLeda B



- **LED spotlight theLeda B**
- Modularly expandable
- Light colour 5000 K or 3000 K
- Wall / ceiling mounting
- Spotlight can be rotated and swiveled
- Extension modules available as accessories: motion detector module with and without remote control, light sensor module
- **Motion detector module RC theLeda B**
- Remote-controlled motion detector module for mounting on theLeda B spotlights
- Detection angle 180° at 12 m range
- Additional light switching output, master-slave capable, max. switching load 140 W LED
- Sensor can be rotated ± 90° horizontally and 90° downwards/backwards
- Protection class IP 55
- A theLeda B remote control for overriding the motion detector module is included in the scope of delivery
- A remote control can be combined with various RC motion detector modules
- Up to 6 remote controls can be combined with one motion detector module
- Remote control range up to 100 m in free field
- **Motion detector module theLeda B**
- Motion detector module for mounting on theLeda B spotlights
- Detection angle 180° at 12 m range
- Additional light switching output, master-slave capable, max. switching load 140 W LED
- Sensor can be rotated ± 90° horizontally and 90° downwards/backwards
- Protection class IP 55
- **Light sensor module theLeda B**
- Light sensor module for mounting on theLeda B spotlights
- Duty cycle range: 2, 4, 6, 8 hours, Night On / Duration On
- Switch-on brightness adjustable from 2-200 lux
- Additional light switching output, master-slave capable, max. switching load 140 W LED
- Protection class IP 55

Mounting type	Service life	Colour temperature	LED	LED output	Colour	Type	Art.-No.	SD	CD	DA		
Wall / ceiling mounting	L80/B10/52,000 h   L70/B50/175,000 h	5000 K	20 W	1500 lm	White	theLeda B20L WH	1020683	143	167	-		
			20 W	1400 lm	Black	theLeda B20L BK	1020684	143	167	-		
			30 W	2100 lm	White	theLeda B30L WH	1020685	143	167	-		
			30 W	2050 lm	Black	theLeda B30L BK	1020686	143	167	-		
			50 W	3600 lm	White	theLeda B50L WH	1020687	144	167	-		
			50 W	3500 lm	Black	theLeda B50L BK	1020688	144	167	-		
	L80/B10/51,000 h	3000 K	100 W	11440 lm	White	theLeda B100L W WH	1020698	144	167	-		
			100 W	11250 lm	Black	theLeda B100L W BK	1020699	144	167	-		
	Mounting on the LED spotlight						White	Light sensor module theLeda B WH	9070762	-	-	135
							Black	Light sensor module theLeda B BK	9070763	-	-	135
							White	Motion detector module theLeda B WH	9070760	-	-	135
							Black	Motion detector module theLeda B BK	9070761	-	-	135
						White	Motion detector module RC theLeda B WH	9070800	-	-	135	
						Black	Motion detector module RC theLeda B BK	9070801	-	-	135	
						Black	Remote control theLeda B	9070802	-	-	-	

### LED spotlight with motion detector theLeda S



- LED spotlight with integrated motion detector
- Light colour 4000 K
- Wall mounting
- Additional output for switching other lights/consumers
- Suitable for outdoor use
- Automatic lighting control depending on presence and brightness
- Detection angle 180° at 10 m range
- Area delimitation with stickers
- Manual control via push-button possible
- Test function
- Twilight switch function
- Networkable by wire
- theLeda S8: Wall lighting possible through 180° rotation

Mounting type	Detection area	Switching capacity LED	Service life	Colour temperature	LED output	LED	Colour	Type	Art.-No.	SD	CD	DA
Wall mounting	10 m	100 W	L80/B10/45,000 h L70/B50/50,000 h	4000 K	900 lm	8,5 W	White	theLeda S8-100 WH	1020800	144	167	135
							Black	theLeda S8-100 BK	1020801	144	167	135
					2 x 900 lm	2 x 8,5 W	White	theLeda S17-100 WH	1020802	144	167	135
							Black	theLeda S17-100 BK	1020803	144	167	135

### LED spotlight theLeda S



- LED spotlight
- Light colour 4000 K
- Wall mounting
- Suitable for outdoor use
- Networkable by wire
- theLeda S8: Wall lighting possible through 180° rotation

Mounting type	Service life	Colour temperature	LED output	LED	Colour	Type	Art.-No.	SD	CD
Wall mounting	L80/B10/45,000 h L70/B50/50,000 h	4000 K	900 lm	8,5 W	White	theLeda S8-100L WH	1020600	144	168
					Black	theLeda S8-100L BK	1020601	144	168
			2 x 900 lm	2 x 8,5 W	White	theLeda S17-100L WH	1020602	144	168
					Black	theLeda S17-100L BK	1020603	144	168

### LED light with motion detector theLeda D



- LED light with integrated motion detector
- Light colour 3000 K
- Wall mounting
- Motion detector: Detection angle 180°, Detection area 10 m at 2 m mounting height
- Mixed light measurement
- Teach-in function, test function
- Adjustable detection sensitivity
- Orientation light with adjustable dimming level
- Night switch-off, twilight mode, programming and calling up scenes
- Presence simulation
- Networkable via radio
- Ready for operation immediately due to factory presetting
- Mounting type: surface-mounted, also on flush-mounted box, corner mounting possible
- Single-handed plug-in base mounting
- Setting via remote control/APP or APP (BLE) or/and potentiometer
- Basic settings can be made via potentiometer, full range of functions only available with theSenda B and theSenda Plug app

Mounting type	Service life	Colour temperature	LED output	Light emission	LED	Colour	Type	Art.-No.	SD	CD	DA
Wall mounting	L80/B10/50,000 h	3000 K	760 lm	Frontal (Spot)	8,5 W	Aluminum	theLeda D S AL	1020901	144	168	135
			760 lm   475 lm	Frontal (Spot) and upwards	14 W	Aluminum	theLeda D SU AL	1020902	144	168	135
			760 lm	Up	8,5 W	Aluminum	theLeda D U AL	1020903	144	168	135
			2 x 475 lm	Down and up	11,5 W	Aluminum	theLeda D UD AL	1020904	144	168	135

# Motion detectors/LED spotlights

## LED spotlights

### LED luminaire theLeda D



- LED light
- Light colour 3000 K
- Wall mounting
- Networkable via radio
- Mounting type: surface-mounted, also on flush-mounted box, corner mounting possible
- Single-handed plug-in base mounting

Mounting type	Service life	Colour temperature	LED output	Light emission	LED	Colour	Type	Art.-No.	SD	CD
Wall mounting	L80/B10/ 50,000 h	3000 K	760 lm	Frontal (Spot)	8,5 W	Aluminum	theLeda D SL AL	1020701	144	168
			760 lm   475 lm	Frontal (Spot) and upwards	14 W	Aluminum	theLeda D SUL AL	1020702	144	168
			760 lm	Up	8,5 W	Aluminum	theLeda D UL AL	1020703	144	168
			2 x 475 lm	Down and up	11,5 W	Aluminum	theLeda D UDL AL	1020704	144	168

### LED light/LED light with motion detector theLeda D, for floor mounting

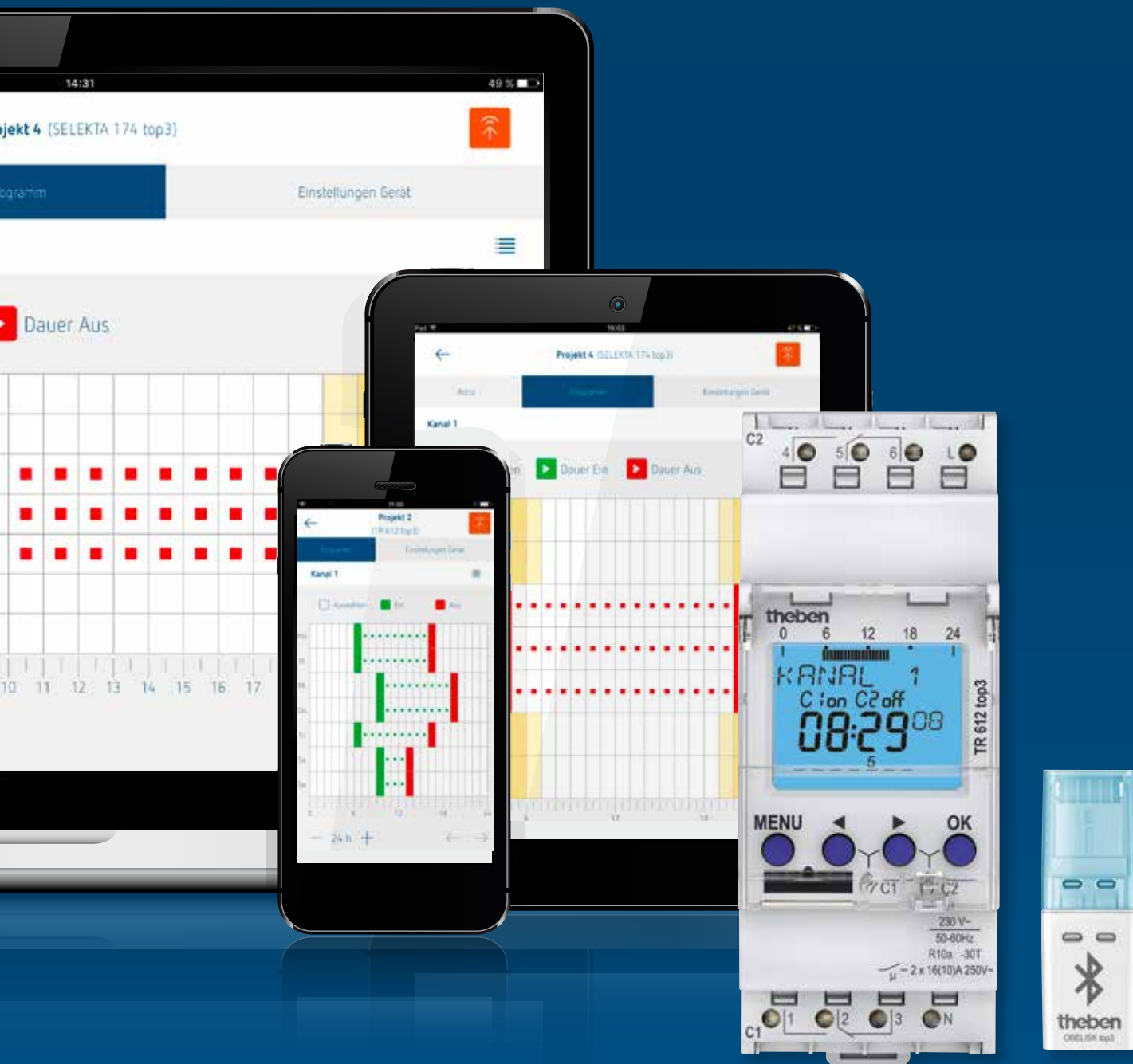


- LED bollard light with 8,5 W, 760 lm
- Frontal light emission (spot)
- Light colour 3000 K
- Floor mounting
- Networkable via radio
- Versions with motion detector:
- Motion detector: Detection angle 180°, Detection areas 12 m
- Mixed light measurement
- Teach-in function, test function
- Adjustable detection sensitivity
- Orientation light with adjustable dimming level
- Night switch-off, twilight mode, programming and calling up scenes,
- Presence simulation
- Networkable via radio
- Ready for operation immediately due to factory presetting
- Setting via remote control/APP or APP (BLE) or/and potentiometer
- Basic settings can be made via
- Potentiometer, full range of functions only available with theSenda B and theSenda Plug App

Mounting type	Service life	Colour temperature	With motion detector	With socket	Length	Colour	Type	Art.-No.	SD	CD	DA
Floor	L80/B10/ 50,000 h	3000 K	✓	–	400 mm	Aluminum	theLeda D B AL	1020905	145	168	135
			✓	–	720 mm	Aluminum	theLeda D B plus AL	1020906	145	168	135
			✓	✓	720 mm	Aluminum	theLeda D B plus S AL	1020907	145	168	135
			–	–	400 mm	Aluminum	theLeda D BL AL	1020705	145	168	–
			–	–	720 mm	Aluminum	theLeda D BL plus AL	1020706	145	168	–
















## Programming, whenever and wherever you want It couldn't be more flexible and convenient! Digital time switches of the top3 series

Create your programs as required directly on the top3 device, on your PC and laptop or via an app on your tablet or smartphone. The app is available for Android and iOS.



Program	Number of channels	Number of memory locations	Number of inputs	PC inter-face	Programming via app	External antenna can be connected	Connection type	Type	Page	
<b>Digital time switches, DIN rail, weekly program, 2 modules</b>										
	Weekly program	1	56	–	✓	✓	–	Plug-in terminals	TR 610 top3	78
		2	56	–	✓	✓	–	Plug-in terminals	TR 612 top3	78
		1	84	1	✓	✓	–	Plug-in terminals	TR 611 top3	78
		1	84	1	✓	✓	✓	Plug-in terminals	TR 611 top3 RC	78
		2	84	2	✓	✓	–	Plug-in terminals	TR 622 top3	78
<b>Digital time switches, DIN rail, astro program, 1/2 modules</b>										
	Weekly program, Astro program	1	56	–	✓	✓	–	Plug-in terminals	SELEKTA 170 top3	79
		2	56	–	✓	✓	–	Plug-in terminals	SELEKTA 174 top3	79
		1	84	1	✓	✓	✓	Plug-in terminals	SELEKTA 171 top3 RC	79
		2	84	2	✓	✓	–	Plug-in terminals	SELEKTA 172 top3	79
		2	84	2	✓	✓	✓	Plug-in terminals	SELEKTA 172 top3 RC	79
		1	56	–	✓	–	–	Plug-in terminals	SELEKTA 175 top2	79
<b>Digital time switches, DIN rail, annual/astro program, 3/4 modules</b>										
	Annual program, Astro program	1	800	1	✓	–	–	Plug-in terminals	TR 641 top2	79
		1	800	1	✓	–	✓	Plug-in terminals	TR 641 top2 RC	79
		1	800	1	✓	–	✓	Plug-in terminals	TR 641 top2 RC	79
		2	800	2	✓	–	–	Plug-in terminals	TR 642 top2	79
		2	800	2	✓	–	✓	Plug-in terminals	TR 642 top2 RC	79
		2	800	2	✓	–	✓	Plug-in terminals	TR 642 top2 RC	79
		4	800	4	✓	–	–	Plug-in terminals	TR 644 top2	79
		4	800	4	✓	–	✓	Plug-in terminals	TR 644 top2 RC	79
–	4	–	4	–	–	–	Plug-in terminals	EM 4 top2	80	
<b>Digital LAN time switches, DIN rail, annual/astro program</b>										
	Annual program, Astro program	4	800	–	–	–	–	Screw terminals	TC 649 E	80
		4	800	–	–	–	–	Screw terminals	TC 649 C	80
<b>Digital time switches, DIN rail, weekly/astro program</b>										
	Weekly program	1	56	–	✓	–	–	Plug-in terminals	TR 608 top2 S	80
		1	84	1	✓	–	–	Plug-in terminals	TR 609 top2 S	80
	Weekly program, Astro program	1	56	1	✓	–	–	Plug-in terminals	SELEKTA 175 top2	80
<b>Digital time switches, front panel/wall, weekly program</b>										
	Weekly program	1	84	–	✓	–	–	Screw terminals	TR 635 top2	81
		2	84	–	✓	–	–	Screw terminals	TR 636 top2	81
<b>Digital time switches, flush-mounted wall, weekly/astro program</b>										
	Weekly program, Astro program	1	84	–	✓	✓	–	Screw terminals	SELEKTA 070 top3 UP	81
	Weekly program	1	84	–	✓	✓	–	Screw terminals	TR 030 top3 UP	81
<b>Digital time switch modules, flush-mounted wall, weekly program</b>										
	Weekly program	1	56	–	–	–	–	Flat plug	TR 684-1 top2	81
<b>Digital plug-in time switches, weekly/astro program</b>										
	Weekly program	1	56	–	✓	–	–	Plug-in	theben-eltimo 020 top3	82
	Weekly program, Astro program	1	56	–	✓	–	–	Plug-in	theben-eltimo 020 Astro top3	82

# Time and light control

## Digital time switches

### Digital time switches, DIN rail, weekly program, 2 modules



- Digital time switch with weekly program
- DuoFix spring terminals
- Text-oriented user guidance on the display
- 56 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- Zero-crossing circuit for relay-saving switching and high lamp loads (not for 24 V devices)
- ON-OFF switching times
- Circuit preselection
- Continuous ON/OFF
- Integrated operating hours counter
- Holiday program
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover
- [Versions top3:](#)
- App programming possible
- Secure transmission via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, time switch programs can only be transferred from the app to the watch if the Bluetooth OBELISK top3 is inserted in the watch
- 100 % compatible with top2

Program	Program functions	Number of channels	Programming via app	Switching capacity	Operating voltage	Switching load < 1mA	LED lamp	Type	Art.-No.	SD	CD
Weekly program	ON-OFF	1	✓	16 (10) A	230 V AC	–	600 W	TR 610 top3	6100130	136	168
		2	✓	16 (10) A	230 V AC	–	600 W	TR 612 top3	6120130	136	168
		1	–	16 (2) A	230 V AC	✓	20 W	TR 610 top2 G	6100110	136	168
		1	–	16 (2) A	12-24 V UC	–	20 W	TR 610 top2 24V	6104100	136	168
		2	–	16 (2) A	12-24 V UC	–	20 W	TR 612 top2 24V	6124100	136	168

### Digital time switches, DIN rail, weekly program, 2 modules



- Digital time switch with weekly and small annual program
- DuoFix spring terminals
- Text-oriented user guidance on the display
- 84 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- Zero-crossing circuit for relay-saving switching and high lamp loads (not for 24 V devices)
- ON-OFF switching times
- Pulse program, cycle program
- Switching preselection, permanent switching ON/OFF
- Count-down timer
- Integrated operating hours counter
- Holiday program
- 2 random programs
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover
- [Versions top3:](#)
- App programming possible
- Secure transmission via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, time switch programs can only be transferred from the app to the watch if the Bluetooth OBELISK top3 is inserted in the watch
- 100 % compatible with top2

Program	Program functions	Number of channels	Programming via app	External antenna connectable	Operating voltage	Number of inputs	Switching capacity	LED lamp	Type	Art.-No.	SD	CD
Weekly program	ON-OFF, pulse, cycle	1	✓	–	230 V AC	1	16 (10) A	600 W	TR 611 top3	6110130	136	169
		1	–	–	12-24 V UC	1	16 (2) A	20 W	TR 611 top2 24V	6114100	136	168
		1	✓	✓	110-230 V AC	1	16 (10) A	600 W	TR 611 top3 RC	6110330	136	169
		2	✓	–	230 V AC	2	16 (10) A	600 W	TR 622 top3	6220130	136	169
		2	–	–	12-24 V UC	2	16 (2) A	20 W	TR 622 top2 24V	6224100	136	169

### Digital time switches, DIN rail, astro program, 1/2 modules



- Astro time switch with weekly program
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- DuoFix spring terminals
- Text-oriented user guidance on the display
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- Zero-crossing circuit for relay-saving switching and high lamp loads (not for 24 V devices)
- Calculated Astro switching times
- Programmable ON-OFF switching times
- Circuit preselection
- Continuous ON/OFF
- Integrated operating hours counter
- Holiday program
- PIN coding
- Automatic summer/winter time changeover
- **Versions top3:**
- App programming possible
- Secure transmission via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, time switch programs can only be transferred from the app to the watch if the Bluetooth OBELISK top3 is inserted in the watch
- 100 % compatible with top2
- Display illumination (can be switched off)

Program	Program functions	Number of channels	Programming via app	External antenna connectable	Operating voltage	Number of inputs	Width	LED lamp	Type	Art.-No.	SD	CD
Weekly program, Astro program	ON-OFF	1	✓	–	230 V AC	–	2 modules	600 W	SELEKTA 170 top3	1700130	136	169
	ON-OFF	2	✓	–	230 V AC	–	2 modules	600 W	SELEKTA 174 top3	1740130	136	168
	ON-OFF	1	–	–	12-24 V UC	–	2 modules	20 W	SELEKTA 170 top2 24V	1704100	136	169
	ON-OFF	1	–	✓	12-24 V UC	–	2 modules	20 W	SELEKTA 171 top2 RC 24V	1714100	136	169
	ON-OFF	2	–	–	12-24 V UC	–	2 modules	20 W	SELEKTA 172 top2 24V	1724100	136	170
	ON-OFF	1	–	–	230-240 V AC	1	1 module	600 W	SELEKTA 175 top2	1750100	145	169
Weekly program, small annual program, astro program (3 twilight areas)	ON-OFF, pulse	1	✓	✓	110-230 V AC	1	2 modules	600 W	SELEKTA 171 top3 RC	1710330	136	169
	ON-OFF, pulse	2	✓	–	230 V AC	1	2 modules	600 W	SELEKTA 172 top3	1720130	136	170
	ON-OFF, pulse	2	✓	✓	110-230 V AC	–	2 modules	600 W	SELEKTA 172 top3 RC	1720330	136	170

### Digital time switches, DIN rail, annual/astro program, 3/4 modules



- Digital time switch with annual and astro program
- DuoFix spring terminals
- Text-oriented user guidance on the display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 8-year power reserve (lithium battery)
- Zero-crossing circuit for relay-saving switching and high lamp loads (not for 24 V devices)
- ON-OFF switching times
- Impulse program
- Cycle program
- Extensive year clock functions
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- Circuit preselection
- Continuous ON/OFF
- Count-down timer
- Integrated operating hours counter
- Holiday program
- 2 random programs
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover

Program	Program functions	Number of channels	External antenna connectable	Operating voltage	Number of inputs	Width	LED lamp	Type	Art.-No.	SD	CD
Annual program, Astro program	ON-OFF, pulse, cycle	1	–	110-230 V AC	1	3 modules	180 W	TR 641 top2	6410100	140	170
		1	✓	110-230 V AC	1	3 modules	180 W	TR 641 top2 RC	6410300	140	170
	1	✓	12-24 V UC	1	3 modules	–	TR 641 top2 RC 24V	6414300	140	170	
	2	–	110-230 V AC	2	3 modules	180 W	TR 642 top2	6420100	140	170	
	2	✓	110-230 V AC	2	3 modules	180 W	TR 642 top2 RC	6420300	140	170	
	2	✓	12-24 V UC	2	3 modules	–	TR 642 top2 RC 24V	6424300	140	171	
	4	–	110-230 V AC	4	4 modules	180 W	TR 644 top2	6440100	145	171	
	4	✓	110-230 V AC	4	4 modules	180 W	TR 644 top2 RC	6440300	145	171	

# Time and light control

## Digital time switches

### Digital time switches, DIN rail, extension module



- Extension module for TR 641 top2 RC, TR 642 top2 RC and TR 644 top2 RC
- 4 channels
- Width: 4 modules
- DuoFix spring terminals
- For 2 conductors each
- Wire or stranded wire (with or without ferrule)
- Wire diameter: 0.5 - 2.5 mm<sup>2</sup>
- Actuating button to release the plug connection
- 4 external inputs
- Push-button can be connected (external switching preselection, sequence timer)
- Switch can be connected (permanent ON or OFF)
- Circuit preselection
- Continuous ON/OFF
- 4 LEDs to indicate the switching status
- Zero-cross switching for relay-saving switching and high lamp loads
- 4 buttons for manual switching of the channels

Program	Width	Type	Art.-No.	SD	CD
Extension module	4 modules	EM 4 top2	6490104	145	171

### Digital LAN time switches, DIN rail, annual/astro program



- **TC 649 E**
- Digital time switch/Astro time switch with weekly program and annual program
- With integrated web server, controllable via LAN and smartphone
- 4 channels
- 800 memory locations
- Channels 1 to 4 can be used as time or astro switching programs.
- 3 special programs per channel: Switching program/ Astro program; Duration Off; Duration On each with year-date function
- Location-dependent public holidays, fixed date ranges, recurring date ranges and Easter-dependent public holidays
- Astro times with other night interruption/ fixed ON switching
- Permanent ON or OFF switchable via LAN
- **TC 649 C**
- As TC 649 E, but:
- With integrated web server, external operation via app possible via a cloud solution
- Timer or astro programs can be sent to a single device via the cloud and direct switching can be carried out via the cloud
- The control box can be operated via the cloud from any computer or smartphone and tablet with the Obelisk top3 app and Internet access
- An additional network router or GSM, UMTS or LTE router is required to connect to the cloud
- Impulse program
- Automatic summer/winter time Europe; Canada; USA; Iran, Australia and freely definable
- Summer/winter time can be deactivated
- Operating hours counter

Program	Program functions	Number of channels	Width	Type of remote communication	Type	Art.-No.	SD	CD
Annual program, Astro program	ON-OFF, pulse	4	4 modules	Integration into the company's own network via VPN	TC 649 E	6490130	145	171
				With integrated web server, external operation via app possible via a cloud solution	TC 649 C	6490430	145	171

### Digital time switches, DIN rail, weekly/astro program



- Digital time switch
- 1 channel
- DuoFix spring terminals
- Text-oriented user guidance on the display
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- Circuit preselection
- Continuous ON/OFF
- Integrated operating hours counter
- Holiday program
- PIN coding
- Automatic summer/winter time changeover

Program	Program functions	Number of channels	Time basis	Memory locations	External input	Contact type	Width	LED lamp	Type	Art.-No.	SD	CD
Weekly program	ON-OFF	1	Quartz	56	–	Change-over contact	1 module	60 W	TR 608 top2 S	6080101	145	171
	ON-OFF, pulse, cycle	1	Quartz	84	✓	NO contact	1 module	600 W	TR 609 top2 S	6090101	145	169
Weekly program, Astro program	ON-OFF	1	Quartz	56	✓	NO contact	1 module	600 W	SELEKTA 175 top2	1750100	145	169

### Digital time switches, front panel/wall, weekly program



- Digital time switch with weekly program
- Text-oriented user guidance on the display
- Preset date and time
- Full operability without mains connection
- 84 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 2. plug-in switching program
- Copying programs
- Program backup
- 10-year power reserve (lithium battery)
- ON-OFF switching times
- Impulse program
- Cycle program
- Circuit preselection
- Continuous ON/OFF
- Count-down timer
- Integrated operating hours counter
- Reset option
- Service function for monitoring maintenance intervals
- Holiday program
- 2 random programs
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover
- can be deactivated
- Switching rules for Europe, USA and other countries are already stored
- own switching rule or switching according to fixed date selectable

Program	Program functions	Number of channels	Time base	LED lamp	Type	Art.-No.	SD	CD
Weekly program	ON-OFF, pulse, cycle	1	Quartz	50 W	TR 635 top2	6350100	145	171
		2	Quartz	50 W	TR 636 top2	6360100	145	172

### Digital time switches, flush-mounted, weekly/astro program



- Digital time switch for flush-mounted wall installation
- 1 channel
- App programming possible via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, time switch programs can only be transferred from the app to the watch if the Bluetooth OBELISK top3 is inserted in the watch
- 3 special programs (small annual program)
- 84 memory locations
- DuoFix spring terminals
- Text-oriented user guidance on the display
- 6-year power reserve
- Interface for OBELISK top2 memory card (PC programming)
- Circuit preselection
- Continuous ON/OFF
- Integrated operating hours counter
- Holiday program
- PIN coding
- Automatic summer/winter time changeover
- Adapter frame available as an accessory for many common switch ranges

Program	Program functions	Number of channels	Programming via app	Time base	LED lamp	Type	Art.-No.	SD	CD
Weekly program, Astro program	ON-OFF, pulse	1	✓	Quartz	600 W	SELEKTA 070 top3 UP	0700130	145	172
Weekly program	ON-OFF, pulse, cycle	1	✓	Quartz	600 W	TR 030 top3 UP	0300130	145	172

18:00

### Digital time switch modules, flush-mounted wall, weekly program



- Digital time switch with weekly program
- 1 channel
- Time switch module only suitable for installation
- Connection with insulated 4.8 mm blade terminal for OEM series devices
- For installation in control units and control devices
- Text-oriented user guidance on the display
- 56 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- ON-OFF switching times
- Circuit preselection
- Continuous ON/OFF
- Integrated operating hours counter
- Holiday program
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover

Program	Program functions	Number of channels	Programming via app	Time base	Type	Art.-No.	SD	CD
Weekly program	ON-OFF	1	–	Quartz	TR 684-1 top2	6840100	145	172



# Time and light control

## Digital time switches

### Digital socket time switches, weekly/astro program



- Digital plug-in time switch
- App programming possible via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, time switch programs can only be transferred from the app to the watch if the Bluetooth OBELISK top3 is inserted in the watch
- Use for Schuko sockets
- 1 channel
- Simple operation with buttons for program functions, day of the week, hour and minute
- ON-OFF switching times
- Circuit preselection
- Continuous ON/OFF

Program	Number of channels	Programming via app	Time base	Random program	Power reserve	LED lamp	Type	Art.-No.	SD
Weekly program, Astro program	1	✓	Quartz	✓	6 years	300 W	theben-eltimo 020 Astro top3	0200170	146
Weekly program	1	✓	Quartz	–	6 years	300 W	theben-eltimo 020 top3	0200130	146

18:00

18:00

# Smarter switching Since 1977 theben-timer

At a time when nobody was thinking about automated and smart home control, theben-timer already offered the option of time-dependent control of switching operations. That was in 1977.

Whether floor lamps, televisions, coffee machines, radios, alarm clocks or aquariums. The small socket timer can be used to switch a wide variety of loads on and off safely and reliably. The simple operating concept has hardly changed in 45 years. Why should you? It works. And really well!

The Analogue time switches for the socket was developed back in 1976. Since then, it has become the bestseller in Theben's product range, with over 33 million units sold worldwide.

## More convenience less power consumption

If you are going on vacation, simply program several time switches in the house with different times. This allows you to create a simple type of presence simulation: the house appears occupied from the outside and is protected against break-ins. You can also reduce power consumption with theben-timer.



## At home anywhere: with an almost infinite variety of applications

With theben-timer, you can switch off voice assistants or WLAN routers or repeaters easily and safely overnight. On the other hand, air purifiers can be switched on on a timed basis to prevent "thick air".











## Safer is simply safer:

The theben-timer 26 safety-plus is equipped with a permanently integrated shutter. This prevents the insertion of objects into the socket and contact with live parts. The theben-timer 26 safety plus therefore meets the requirements of DIN standard VDE 0620:2021-02. The lock only opens when both openings are pressed simultaneously.



# Time and light control

## Analogue time switches

Program	Number of channels	Contact type	Power reserve	Shortest switching time	Connection type	Type	Page	
<b>Analogue time switches, DIN rail, daily/weekly program, 1 module</b>								
	Daily program	1	NO contact	-	15 min	Screw terminals	SYN 160 a	86
		1		3 days	15 min	Screw terminals	SUL 180 a	86
	Weekly program	1	NO contact	3 days	2 h	Screw terminals	MEM 190 a	86
<b>Analogue time switches, DIN rail, 60-minute/day/week program, 3 modules</b>								
	60-minute program	1	Changeover contact	-	37,5 s	Plug-in terminals	SYN 151 h	86
	Daily program	1	Changeover contact	-	15 min	Plug-in terminals	SYN 161 d	86
				3 days	15 min	Plug-in terminals	SUL 181 d	86
				3 days	15 min	Plug-in terminals	SUL 181 d	86
	Weekly program	1	Changeover contact	3 days	2 h	Plug-in terminals	SUL 191 w	86
<b>Analogue time switches, DIN rail, daily/weekly program, 3 modules</b>								
	Daily program	2	Changeover contact	3 days	30 min	Screw terminals	SUL 188 g	86
		1	Changeover contact	3 days	45 min, 12 h	Screw terminals	SUL 188 hw	86
<b>Analogue time switches, front panel/wall, daily program</b>								
	Daily program	1	Changeover contact	-	15 min	Screw terminals	SYN 169 s	87
				3 days	15 min	Screw terminals	SUL 189 s	87
				3 days	15 min	Screw terminals	SUL 189 s	87
<b>Analogue time switches, front panel/wall, daily/weekly program</b>								
	Daily program, weekly program	1	Changeover contact	-	20 min, 2 h	Screw terminals	SYN 269 h	87
			Changeover contact	3 days	20 min, 2 h	Screw terminals	SUL 289 h	87
		2	Changeover contact	3 days	20 min, 2 h	Screw terminals	SUL 289 g	87
	60-minute program	1	Changeover contact	-	1.25 min	Screw terminals	TM 179 h	87
	Daily program	1	Changeover contact	3 days	30 min, 12 h	Screw terminals	SUL 189 hw	87
<b>Analogue time switches, wall/3-point, daily program</b>								
	Daily program	2	Changeover contact	6 days	20 min	Screw terminals	SUL 285/2 T	88
<b>Analogue socket time switches, daily/weekly program</b>								
	Daily program	1	NO contact	-	15 min	Plug-in	theben-timer 26	88
						Plug-in	theben-timer 26 IP 44	88
	Weekly program	1	NO contact	-	2 h	Plug-in	theben-timer 27	88
	Daily program	1	NO contact	-	15 min	Plug-in	theben-timer 26	88
<b>Analogue cooling time switches, daily/short-time program</b>								
	Daily and defrost program	1	Changeover contact	-	2 min, 1 h	Screw terminals	FRI 77 h-2	88
		2	Changeover contact	-	2 min, 1 h	Screw terminals	FRI 77 g-2	88
		2	Changeover contact	-	2 min, 1 h	Screw terminals	FRI 77 g	88

# Time and light control

## Analogue time switches

### Analogue time switches, DIN rail, daily/weekly program, 1 module



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

Program	Number of channels	Power reserve	LED lamp	Shortest switching time	Contact type	Switching segments	Type	Art.-No.	SD	CD
Daily program	1	-	300 W	15 min	NO contact	96	SYN 160 a	1600001	146	172
	1	3 days	300 W	15 min	NO contact	96	SUL 180 a	1800001	146	172
Weekly program	1	3 days	300 W	2 h	NO contact	84	MEM 190 a	1900001	146	172

### Analogue time switches, DIN rail, 60-minute/day/week program, 3 modules



- Analogue time switches
- 1 channel
- Width 3 modules
- DuoFix spring terminals
- For 2 conductors each
- Wire or stranded wire (with or without ferrule)
- Wire diameter: 0.5 - 2.5 mm<sup>2</sup>
- Actuating button to release the plug connection
- Circuit preselection
- Manual switch with 3 positions: Permanent ON/AUTO/Permanent OFF
- Switching status display

Program	Number of channels	Power reserve	LED lamp	Shortest switching time	Operating voltage	Contact type	Type	Art.-No.	SD	CD
60-minute program	1	-	180 W	37,5 s	230 V AC	Changeover contact	SYN 151 h	1510011	146	172
Daily program	1	-	180 W	15 min	230 V AC	Changeover contact	SYN 161 d	1610011	146	172
		3 days	180 W	15 min	110-230 V AC	Changeover contact	SUL 181 d	1810011	146	172
		3 days	180 W	15 min	12-24 V UC	Changeover contact	SUL 181 d 12-24V	1814011	146	172
Weekly program	1	3 days	180 W	2 h	110-230 V AC	Changeover contact	SUL 191 w	1910011	146	172

### Analogue time switches, DIN rail, daily/weekly program, 3 modules



- Analogue time switches
- With power reserve (NiMH cell)
- Quartz-controlled
- Tappets
- Screw terminals
- Switching status display
- Operating indication

Program	Number of channels	Power reserve	Shortest switching time	Contact type	Width	Type	Art.-No.	SD	CD
Daily program	2	3 days	30 min	Changeover contact	3 modules	SUL 188 g	1880033	146	172
Daily/weekly program with 1/2 day OFF function	1	3 days	45 min, 12 h	Changeover contact	3 modules	SUL 188 hw	1880108	146	172

### Analogue time switches, front panel/wall, daily program



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

Program	Number of channels	Power reserve	Shortest switching time	Operating voltage	Contact type	Type	Art.-No.	SD	CD
Daily program	1	-	15 min	230 V AC	Changeover contact	SYN 169 s	1690801	146	173
		3 days	15 min	230 V AC	Changeover contact	SUL 189 s	1890801	146	173
		3 days	15 min	110 V AC	Changeover contact	SUL 189 s 110V	1891801	146	173

### Analogue time switches, front panel/wall, daily/weekly program



- Analogue time switches with daily or weekly program (rotating switching disc)
- Tappets
- Shortest switching time: 20 minutes or 2 hours
- Clock hand for time display
- Switching status display

Program	Number of channels	Power reserve	Shortest switching time	Contact type	Type	Art.-No.	SD	CD
Daily program, weekly program	1	-	20 min, 2 h	Changeover contact	SYN 269 h	2690008	146	173
		3 days	20 min, 2 h	Changeover contact	SUL 289 h	2890008	146	173
		3 days	20 min, 2 h	Changeover contact	SUL 289 g	2890033	146	172

### Analogue time switches, front panel/wall, daily/weekly program



- Analogue time switches
- Switching status display
- 6 plug-in riders included in the scope of delivery

Program	Number of channels	Power reserve	Shortest switching time	Contact type	Type	Art.-No.	SD	CD
60-minute program	1	-	1.25 min	Changeover contact	TM 179 h	1790008	146	173
Daily/weekly program with 1/2 day OFF function	1	3 days	30 min, 12 h	Changeover contact	SUL 189 hw	1890108	146	173





# Time and light control

## Analogue time switches

### Analogue time switches, wall/3-point, daily program



- Analogue tariff time switch with daily program
- 2 channels
- With power reserve (replaceable NiMH cell)
- Quartz-controlled
- Tappets
- Shortest switching time: 20 minutes
- Clock hand for time display
- Switching status display
- Simple summer/winter time changeover
- Clockwise and anti-clockwise time correction possible
- Control LED for battery change
- 32 plug-in riders included in the scope of delivery

Program	Number of channels	Power reserve	Shortest switching time	Switching capacity	Contact type	Type	Art.-No.	SD	CD
Daily program	2	6 days	20 min	6 (2) A	Changeover contact	SUL 285/2 T	2850033	146	173

### Analogue plug-in time switches, daily/weekly program



- Analogue plug-in time switch
- 1 channel
- Without power reserve
- Mains synchronized
- Use for Schuko sockets (other plug types on request)
- Circuit preselection
- Switching status display

Program	Number of channels	LED lamp	Shortest switching time	Protection class	Contact type	With increased contact protection	Type	Art.-No.	SD	CD
Daily program	1	400 W	15 min	IP 20	NO contact	-	theben-timer 26	0260030	146	173
					NO contact	-	theben-timer 26 IP 44	0260855	-	173
					NO contact	✓	theben-timer 26 safety-plus	0260833	146	173
Weekly program	1	400 W	2 h	IP 20	NO contact	-	theben-timer 27	0270930	146	173

### Analogue cooling time switches, daily/short-time program



- Analogue refrigerator time switch with daily and short-time program for defrosting
- Tappets
- Mains synchronized
- Shortest switching time: 2 minutes/1 hour
- 2 separate switching disks
- 24-hour dial for hour preselection
- 60-minute switch disk for setting the short contact duration

Program	Number of channels	Shortest switching time	Mounting type	Type	Art.-No.	SD	CD
Daily and defrost program	1	2 min, 1 h	Drive with quick fastening for DIN rail	FRI 77 h-2	0770802	146	173
	2	2 min, 1 h	Drive with quick fastening for DIN rail	FRI 77 g-2	0770832	146	173
	2	2 min, 1 h	Wall structure	FRI 77 g	0770033	147	173



# The classics

## Reliable and robust

### Hour counters

Our tried-and-tested, quick-to-install counters can be used to reliably record operating and service times, allowing production processes, maintenance cycles and warranty periods to be precisely planned and monitored.



Function type	Type	Page
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### Electronic time relay



TM 345 MF

92

Mounting type	Front panel size	Type	Page
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### Analogue hour counters



Front panel installation

48 x 48 mm

BZ 142-1

93

BZ 142-1

93

BZ 142-1

93

BZ 142-1

93

BZ 142-3

93

52 x 52 mm

BZ 143-1

93

DIN rail

35 x 45 mm

BZ 145

93

35 x 45 mm

BZ 145

93

### Digital operating hours counter



Front panel installation

24 x 48 mm

BZ 146

93

48 x 48 mm

BZ 147

93

DIN rail

35 x 45 mm

BZ 148

93



# Time and light control

## Time relay

### Electronic time relay



- Electronic time relay
- Latching rotary switches for selecting the time range and the following 10 operating modes:
  - Response delay (AV)
  - Clock generator (TG)
  - Clock generator (TP)
  - Relapse delay (RV)
  - Response and release delay (RV)
  - Response and release delay (VZ)
  - Additive response delay (AVC)
  - Pulse function (IP)
  - Switch-on wipe (EW), without control contact
  - Function on-wiping (EW)
  - Switch-off wiping function (AW)
  - Surge function (SV)
- Universally applicable for controlling automatic processes on machines, lighting, ventilation, heating, barriers, etc.
- Precise Analogue time setting
- Multi-voltage input for all supply and control voltages, no wire jumpers or additional terminals required
- LED for displaying the switching status
- Width voltage range 12 - 240 V AC/DC
- High time range 0.1 sec to 100 h
- High switching capacity 16 A

Type	Art.-No.	SD	CD
TM 345 MF	3450733*	<?>	173

\* Available from May 2024

## Analogue hour counters



- Hour counter with synchronous motor drive
- **BZ 142-1**
- Front panel-mounted appliances with snap-in or clamp fastening up to max. 10 mm wall thickness
- Terminal or blade terminal connection 6.3 mm
- Front panel size 48 x 48 mm
- Versions for DC voltage with quartz-controlled stepper motor
- Running display
- **BZ 142-3**
- With plug-in base for wall mounting (terminal cover required)
- Plug-in base with quick fastening for 35 mm DIN rail
- Screw terminals
- Protection against accidental contact in accordance with accident prevention DIN railulation BGV A3
- Housing colour anthracite
- Front panel size 48 x 48 mm
- Versions for DC voltage with quartz-controlled stepper motor
- Running display
- **BZ 143-1**
- Front panel-mounted appliances with snap-in or clamp fastening up to max. 10 mm wall thickness
- Terminal or blade terminal connection 6.3 mm
- Front panel size 52 x 52 mm
- Versions for DC voltage with quartz-controlled stepper motor
- Running display
- **BZ 145**
- Distributor installation device with quick fastening for 35 mm DIN rail
- Surface mounting with additional terminal cover, sealable
- Control panel installation with mounting kit no. 9070001
- Protection against accidental contact in accordance with accident prevention DIN railulation BGV A3
- captive terminal screws

Mounting type	Counting range	Front panel size	Size of installation cut-out	Operating voltage	Type	Art.-No.	SD	CD
Front panel installation	99999,99 h	48 x 48 mm	46 x 46 mm	230 V AC	BZ 142-1	1420721	147	173
				10 V DC - 80 V DC	BZ 142-1 10V	1420821	147	173
				230 V AC - 240 V AC	BZ 142-1 230V	1420621	147	173
		52 x 52 mm	46 x 46 mm	24 V AC	BZ 142-1 24V	1424721	147	173
				230 V AC	BZ 142-3	1420723	147	173
				230 V AC	BZ 143-1	1430721	147	173
DIN rail	99999,9 h	35 x 45 mm	-	230 V AC	BZ 145	1450000	147	173
				24 V DC - 48 V DC	BZ 145 24V	1459024	147	173

## Digital hour counters



- Digital hour counter
- With EEPROM memory ensures reliable operating time recording, even in the event of power failures
- 7-digit high-contrast LCD display
- Running indicator on the display
- **BZ 146**
- Installation cut-out 22 mm x 45 mm
- Panel mounting
- Terminal screws
- Clamp fastening up to 5 mm wall thickness
- Quartz-controlled version
- **BZ 147**
- Installation cut-out 45 mm x 45 mm
- Panel mounting
- Terminal screws
- Clamp fastening up to 5 mm wall thickness
- Quartz-controlled version
- **BZ 148**
- Distributor installation device with quick fastening for 35 mm DIN rail
- Surface mounting with additional terminal cover possible
- Captive terminal screws

Mounting type	Counting range	Front panel size	Size of installation cut-out	Operating voltage	Type	Art.-No.	SD	CD
Front panel installation	99999,99 h	24 x 48 mm	22 x 45 mm	110 V AC - 240 V AC	BZ 146	1460000	147	174
Front panel installation	99999,99 h	48 x 48 mm	45 x 45 mm	110 V AC - 240 V AC	BZ 147	1470000	147	174
DIN rail	99999,9 h	35 x 45 mm	-	24 V AC - 240 V AC / 12 - 150 V DC	BZ 148	1480000	147	174



# The right light at the right time

## OKTO Latching relays

## ELPA Staircase time switches

With the legendary ELPA staircase time switches, which have been sold millions of times, Theben has been setting standards in terms of functionality, reliability and durability for decades. We have now transferred these special qualities to our new OKTO latching relays. And at attractive prices.

Technical details can be found from page 97 onwards.



### OKTO ES: LED-capable and quiet Electronic latching relay

OKTO electronic latching relays have a zero-crossing circuit for optimum switching of LEDs. This protects the relay contact and extends the service life of the light source. OKTO latching relays ES12-230 and ES12-UC can be operated with illuminated push-buttons up to a load of 100 mA. After a power failure, the last switching state is automatically restored.

- Gentle on lamps thanks to high LED switching capacity
- Particularly quiet operation
- Floating multi-voltage input (OKTO ES12-UC)



### OKTO S: Efficient and safe Electromechanical latching relays

OKTO offer a bistable function with which the last switching position is held without current consumption until the next current pulse. This effectively reduces power dissipation and power consumption. In the event of a power failure, the last switching position is held mechanically.

- Only two wires required per push-button
- Bistable function
- 0 W Standby consumption
- Electrically safe all-pole disconnection (OKTO S22-230)
- Integrated manual switch



### ELPA 7: Powerful and flexible Electronic Staircase time switches

Perfect for energy-efficient lighting control in stairwells, garages and courtyards, for example. The zero-crossing circuit enables optimum switching of LEDs. ELPA 7 staircase lighting time switches can be installed in existing and new installations thanks to automatic 3- or 4-wire detection.

- Gentle on lamps thanks to high LED switching capacity
- Particularly quiet operation
- High glow lamp load
- Switch-off pre-warning can be activated
- Automatic 3-/4-wire detection
- theMura S180-100 2W flush-mounted connectable
- Manual switch for continuous light

## Time and light control Staircase time switches/latching relays

Mounting type	Time-setting range	Multi-function	Multi-voltage input	Switch-off pre-warning	Long-term function	Zero-cross switching	Without stand-by consumption	Type	Page
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### Electronic staircase time switches



DIN rail	0.5 - 20 min	–	✓	✓	60 min	✓	–	ELPA 1	96
			–	✓	60 min	✓	–	ELPA 6 plus	96
			✓	✓		✓	–	ELPA 3	96
			–	✓		✓	–	ELPA 7	96

### Electromechanical staircase time switches



DIN rail	1 - 7 min	–	–	–	–	–	✓	ELPA 8	96
								ELPA 9	96

### Electronic staircase time switches



Flush-mounted	0.5 - 20 min	–	✓	✓	60 min	✓	–	ELPA 041	96
			–	–		✓	–	ELPA 047	96

Number of channels	Multi-voltage input	Type	Page
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### Latching relay



1	–	OKTO S12-230	97
		OKTO S22-230	97
		OKTO ES12-230	97
		OKTO ES12-UC	97



# Time and light control

## Staircase time switches

### Electronic staircase time switches



- Staircase time switch, electronic
- Switch-off pre-warning to avoid sudden darkness
- Zero-crossing circuit to protect the relay contact and light source, i.e. the service life of the light source is extended
- Terminal assignment as for ELPA 8
- High accuracy
- Push-button input with electronic overload protection
- Automatic 3- or 4-wire detection (4-wire with connection for floor lighting, 3-wire no longer permitted for new installations)
- Suitable for combination with motion detector theMura S180-100 2W UP WH in 4-wire circuit, ideal for replacing existing push-buttons (no N-wire required)
- [ELPA 1](#)
- Multifunctional appliance with 10 selectable functions, adjustable on the front of the appliance
- Additional galvanically isolated multi-voltage input for AC/DC 8...240 V, e.g. for intercom systems
- Long-term function can be activated via long push-button action
- Latching relay
- Can be switched on immediately (staircase light switch) or switched off prematurely (latching relay with release delay)
- Permanent light
- [ELPA 6 plus](#)
- Multifunctional appliance with 10 selectable functions, adjustable on the front of the appliance
- Switch-off pre-warning optimized for LED lights (two single flashes)
- Extended flashing pulse, reliably signals the switch-off warning for LED lamps
- Long-term function can be activated via long push-button action
- Can be switched on immediately (staircase light switch) or switched off prematurely (latching relay with release delay)
- Latching relay
- Permanent light
- [ELPA 3](#)
- Additional galvanically isolated multi-voltage input for AC/DC 8...240 V, e.g. for intercom systems
- Toggle switch for continuous light
- [ELPA 7](#)
- Toggle switch for continuous light
- Deactivatable switch-off pre-warning

LED lamp	Time setting range	Function type	Multi-voltage input	Switch-off pre-warning	Glow lamp load	Adjustable	Type	Art.-No.	SD	CD
600 W	0.5 - 20 min.	Electronic with multifunction	✓	✓	100 mA	Immediately	ELPA 1	0010002	145	174
			-	✓	100 mA	Immediately	ELPA 6 plus	0060003	145	174
		Electronic	✓	✓	100 mA	Immediately	ELPA 3	0030002	145	174
			-	✓	100 mA	Immediately	ELPA 7	0070002	145	174

### Electromechanical staircase time switches



- Staircase time switches, electromechanical
- No quiescent current consumption
- Toggle switch for continuous light
- Maximum reliability thanks to synchronous motor drive
- Simple time setting and direct reading of the delay time on an absolute scale
- Precision mechanics and therefore exact switching time
- Very high noise immunity
- [ELPA 8](#)
- 4-wire with connection for floor lighting
- 3-wire connection without floor lighting (no longer permitted for new installations)
- Adjustable
- Suitable for combination with motion detector theMura S180-100 2W UP WH in 4-wire circuit, ideal for replacing existing push-buttons (no N-wire required)
- [ELPA 9](#)
- 3-wire connection system and floor lighting, but without downstream switching (no longer permitted for new installations)
- Terminal assignment as for ELPA 8

LED lamp	Time setting range	Function type	Switch-off pre-warning	3-/4-conductor	Adjustable	Type	Art.-No.	SD	CD
300 W	1 - 7 min.	Mechanical	-	Yes	After 30 s	ELPA 8	0080002	148	174
			-	3-wire only	No	ELPA 9	0090001	148	174

### Electronic staircase time switch UP



- Flush-mounted staircase time switch, electronic
- Suitable for retrofitting and new installations
- Zero-crossing circuit to protect the relay contact and light source, i.e. the service life of the light source is extended
- Push-button input with electronic overload protection
- Automatic 3- or 4-wire detection (4-wire with connection for floor lighting, 3-wire no longer permitted for new installations)
- High accuracy
- Can be switched on immediately
- [ELPA 041](#)
- Multifunctional appliance with 12 selectable functions, adjustable on the front of the appliance
- Switches or push-buttons can be connected, i.e. existing switches can be used (e.g. for retrofitting)
- Additional galvanically isolated multi-voltage input for AC/DC 8...240 V, e.g. for intercom systems
- Switch-off warning (two double flashes) in accordance with DIN 18015-2 to prevent sudden darkness
- 60 min long-term function can be activated by pressing and holding the button
- Can be switched on immediately (staircase light switch) or switched off prematurely (latching relay with release delay)

LED lamp	Function type	Connection	Switch-off pre-warning	Multi-voltage input	Adjustable	Type	Art.-No.	SD	CD
250 W	Electronic with multifunction	Push-button / switch	✓	✓	Immediately	ELPA 041	0410002	148	175
	Electronic	Push-button	-	-	Immediately	ELPA 047	0470002	148	175

### Latching relays



- **OKTO S**
  - Electromechanical latching relay
  - Convenient lighting control of a common load with several buttons possible
  - Simple and inexpensive electrical installation with 2 wires per push-button
  - Operation via integrated handset possible
  - Potential-free with safety extra-low voltage (SELV)
  - LED switching load up to 200 W
  - No quiescent current consumption
- **OKTO ES**
  - Electronic latching relay
  - Convenient lighting control of a common load with several buttons possible
  - Particularly quiet operation of the installation remote switch
  - High glow lamp load up to 100 mA
  - Automatic 3-/4-wire detection of the pulse switch
  - Gentle on lamps thanks to zero-crossing switching for high LED Switching capacity (600 W)
  - Stand-by consumption of only 0.3 W

Function	Number of channels	LED lamp	Glow lamp load	All-pole disconnection	Multi-voltage input	Type	Art.-No.	SD	CD
Electro-mechanical	1	200 W	3 mA	-	-	OKTO S12-230	3120120	148	175
	2	200 W	3 mA	✓	-	OKTO S22-230	3120122	148	175
Electronic	1	600 W	100 mA	-	-	OKTO ES12-230	3120130	148	175
	1	600 W	100 mA	-	✓ (8 to 230 V)	OKTO ES12-UC	3120131	148	175








## Small but mighty: DIMAX 540 plus B Flush-mounted universal dimmer

The DIMAX 540 plus B flush-mounted dimmer for R and C loads is barely bigger than a two-euro coin (26.4 x 25.5 x 10.4 mm). It is simply mounted behind a standard push-button and is therefore perfect for retrofitting.

- **Simple installation:** Thanks to particularly compact housing
- **Safe installation: no neutral conductor is required** thanks to fully encapsulated electronics
- **Perfect for LEDs:** Optimized settings for LEDs, incandescent and halogen lamps and is compatible with dimmable LEDs from 2-150 W (phase cut-off).
- **Low standby power:** of just 0.34 watts
- **Practical memory function:** Saves the last set light value and dims to this value the next time it is switched on
- **Maximum fire protection** thanks to temperature and overcurrent cut-out and short-circuit protection.
- **Adjustable minimum brightness**



	Mounting type	Multi-voltage input	Multifunction	Programming via app	LED lamp	Type	Page
<b>Dimmer DIN rail</b>							
	DIN rail	-	-	-	400 W	DIMAX 532 plus	100
			✓	-	400 W	DIMAX 534 plus	100
<b>Dimmer UP</b>							
	Flush-mounted	-	-	-	150 W	DIMAX 540 plus B	100
			-	-	250 W	DIMAX 541 plus E	100
	Flush-mounted	-	-	-	250 W	DIMAX 542 plus S	100
			✓	✓	250 W	DIMAX 545 plus P	100





# Time and light control

## Dimmer

### Dimmer DIN rail



- Universal dimmer for R, L and C loads with automatic load detection
- Adjustable minimum brightness (required for ESL and LEDs)
- Multi-voltage input, e.g. for intercom systems
- Low stand-by consumption
- Memory function in the event of a power failure
- Automatic electronic overload and overtemperature cut-out
- Dimming switch-on function
- Permanent ON function (test function)
- No minimum load required
- Soft ON and Soft OFF protect the light source
- When using the 1-channel dimming booster DMB 1 T KNX, the dimming power can be increased by 300 W
- [DIMAX 534 plus](#)
- Comfort setting with wake-up and snooze function (can also be deactivated), e.g. for children's rooms
- Adjustable dimming speed (for automatic functions)
- One- and two-button operation for the simplest operation
- Up to 3 light scenes can be called up via separate input
- Central OFF/ON for max. 10 dimming channels or light scene for max. 10 devices possible with one push-button
- Staircase lighting function with dimming function in accordance with DIN 18015 - 2 (can be switched on and off, long-term function)
- Can be controlled via push-buttons or switches, e.g. for combination with presence detectors or time switches
- Several light scenes can be implemented with separate diode module (9070367) as an accessory

LED lamp	Multifunction	Programming via app	Load detection	Stand-by consumption	Type	Art.-No.	SD	CD
Trailing edge: 400 W	–	–	✓	~0,2 W	DIMAX 532 plus	5320001	145	176
Trailing edge: 400 W	✓	–	✓	~0,2 W	DIMAX 534 plus	5340001	145	176

### Dimmer flush-mounted



- [DIMAX 540 plus B](#)
- Flush-mounted dimmer for R and C loads
- Optimized settings for LEDs, incandescent and halogen lamps
- Fully encapsulated electronics
- No neutral conductor necessary
- Small design, perfect for retrofitting
- Temperature shutdown
- Overcurrent shutdown
- Short-circuit fuse
- Memory function, saves the last set light value and dims to this value the next time it is switched on
- Function Minimum brightness (10% in Delivery status, adjustable)
- [Common functions \(DIMAX 541 plus E, DIMAX 542 plus S, DIMAX 545 plus P\)](#)
- Universal dimmer for R, L and C loads with automatic load detection
- Optimized settings for LEDs and incandescent lamps
- Adjustable minimum brightness for LEDs
- Overheating protection against overload
- Easy installation due to special compact housing
- Ideal for all dimmable LEDs and halogen lamps
- Convenient snooze function
- Memory function, saves the last set light value and dims to this value the next time it is switched on
- Short-circuit protection
- Gentle "soft" switching on and off of lamps
- [DIMAX 541 plus E](#)
- Operation via push-button
- [DIMAX 542 plus S](#)
- Operation via push-button, adjustment via potentiometer
- Function LED2 = fixed Phase control adjustable, necessary for special LEDs
- [DIMAX 545 plus P](#)
- Operation via push-button or app via Bluetooth Low Energy
- Adjustable dimming behavior
- Adjustable staircase lighting function
- App for Android and iOS
- Time functions
- Astro functions
- Night interruption
- Special load setting
- Sequential scenes
- Password protection possible

LED lamp	Multifunction	Programming via app	Load detection	Stand-by consumption	Type	Art.-No.	SD	CD
Trailing edge: 150 W	–	–	–	~0,34 W	DIMAX 540 plus B	5400130	148	176
Trailing edge: 250 W	–	–	✓	~0,15 W	DIMAX 541 plus E	5410130	155	176
Trailing edge: 250 W	–	–	✓	~0,15 W	DIMAX 542 plus S	5420130	155	176
Trailing edge: 250 W	✓	✓	✓	~0,15 W	DIMAX 545 plus P	5450130	148	176



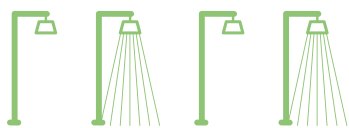
# LUNA top3

## Light-dependent control

### Now also via smartphone app



The new LUNA top3 digital twilight switches from Theben set the next milestone in terms of functional diversity, programmability and energy efficiency. Twilight programs can be easily controlled via app and transmitted to the twilight switch via Bluetooth Low Energy. Thanks to the newly developed zero-crossing circuit, you have the high inrush currents of LEDs safely under control. With top3 you can switch 5 times the LED power compared to top2 (maximum 600 watts, 800 amps/200  $\mu$ s). Technical details can be found from page 104 onwards.



#### Practical, safe, low-maintenance: channel switching and interlocking

The new 2-channel twilight switch LUNA 122 top3 now features channel switching and channel locking. Channel switching can be used to activate basic lighting and save energy at the same time. In street lighting, for example, this not only means that light sources wear out immediately, but also extends the service life and maintenance intervals of the lights. The channel interlock prevents a channel from being used for contradictory commands that could cause damage to consumers, e.g. forward and reverse in motors.







#### Special programs with annual functions

The new LUNA 121 top3 and LUNA 122 top3 twilight switches have a small annual program and enable the programming of one-off and recurring events (e.g. pre-programmed public holidays that only need to be selected).



#### Maximum tamper protection

Timer programs can only be transferred from the app to the clock if the Bluetooth OBELISK top3 is inserted in the clock. This protects your device from unauthorized access by third parties and ensures maximum security against tampering. This is an important aspect, especially for devices installed in public places.

	Mounting type	Number of channels	Adjustment range brightness	Switch-on delay	On/Off disconnected	Number of inputs	PC interface	Program	Type	Page
<b>Analogue twilight switch DIN rail</b>										
	DIN rail	1	2 - 2000 lx	20 s	–	–	–	–	LUNA 108 plus	104
	DIN rail	1	2 - 50000 lx	0 - 20 min	–	–	–	–	LUNA 110 plus	104
<b>Digital twilight switch DIN rail</b>										
	DIN rail	1	1 - 99000 lx	0 - 59 min	✓	1	✓	–	LUNA 111 top3	104
	DIN rail	2	1 - 99000 lx	0 - 59 min	✓	–	✓	–	LUNA 112 top3	104
<b>Digital twilight switch with timer DIN rail</b>										
	DIN rail	1	1 - 99000 lx	0 - 59 min	✓	1	✓	Weekly program	LUNA 121 top3 RC	104
	DIN rail	2	1 - 99000 lx	0 - 59 min	✓	–	✓	Weekly program	LUNA 122 top3 RC	104
<b>Analogue twilight switch wall mounting/pole mounting</b>										
	Wall mounting or pole mounting	1	2 - 200 lx	20 s	–	–	–	–	LUNA 126 star E	105
	Wall mounting or pole mounting	1	2 - 2000 lx	2 - 100 s	–	–	–	–	LUNA 127 star S	105



# Time and light control

## Twilight switch

### Analogue twilight switch DIN rail



- Analogue twilight switch
- External light sensor included in the scope of delivery
- Display of the channel and switching status
- Switching brightness continuously adjustable
- **LUNA 108 plus**
- Fixed switch-on and switch-off delay
- **LUNA 110 plus**
- Adjustable switch-on and switch-off delay
- DuoFix spring terminals
- Extended brightness range and adjustable delay time
- Five adjustable brightness ranges for easy adjustment of the lux value
- Zero-crossing circuit to protect the relay contact and light source for a longer service life
- Permanent OFF and permanent ON function can be set on the potentiometer
- Test function

Number of channels	Width	LED lamp	Protection class	Adjustment range brightness	Sensor (included)	Type	Art.-No.	SD	CD
1	1 module	350 W	II	2 - 2000 lx	Built-in light sensor, ball impact tested	LUNA 108 plus EL	1080900	145	176
					Surface-mounted light sensor	LUNA 108 plus AL	1080910	145	176
	2 modules	600 W	II, Sensor III	2 - 50000 lx	Built-in light sensor, ball impact tested	LUNA 110 plus EL	1100900	136	176
					Surface-mounted light sensor	LUNA 110 plus AL	1100910	136	176

### Digital twilight switch DIN rail



- Twilight switch/light control unit
- External light sensor included in the scope of delivery
- App programming possible
- Secure transmission via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, programs can only be transferred from the app if the Bluetooth OBELISK top3 is plugged in
- Switching brightness digitally adjustable
- Adjustable switch-on and switch-off delay
- Switching brightness and delay for switching on and off can be set separately
- Indication of the channel and switching status, as well as the current lux value on the display
- DuoFix spring terminals
- Zero-cross switching for relay-saving switching and high lamp loads
- Up to 4 sensors can be connected
- Up to 10 devices can be connected to one digital sensor
- Interface for OBELISK top2
- Memory card (PC programming)
- Extended brightness range
- Continuous ON/OFF
- Test function
- Circuit preselection
- Display illumination
- PIN coding
- Operating hours counter

Number of channels	Width	LED lamp	Protection class	Adjustment range brightness	External inputs	Sensor (included)	Type	Art.-No.	SD	CD
1	2 modules	600 W	II, Sensor III	1 - 99000 lx	1	Surface-mounted light sensor	LUNA 111 top3 AL	1110130	136	176
					1	Built-in light sensor	LUNA 111 top3 EL	1110230	136	176
2	2 modules	600 W	II, Sensor III	1 - 99000 lx	-	Surface-mounted light sensor	LUNA 112 top3 AL	1120130	136	176
					-	Built-in light sensor	LUNA 112 top3 EL	1120230	136	176

### Digital twilight switch with timer DIN rail



- Twilight switch with integrated weekly time switch
- External light sensor included in the scope of delivery
- App programming possible
- Secure transmission via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, programs can only be transferred from the app if the Bluetooth OBELISK top3 is plugged in
- Switching brightness digitally adjustable
- Adjustable switch-on and switch-off delay
- Switching brightness and delay for switching on and off can be set separately
- Indication of the channel and switching status, as well as the current lux value on the display
- DuoFix spring terminals
- Zero-cross switching for relay-saving switching and high lamp loads
- Up to 4 sensors can be connected
- Up to 10 devices can be connected to one digital sensor
- Interface for OBELISK top2 memory card (PC programming)
- Extended brightness range
- Continuous ON/OFF
- Test function
- Circuit preselection
- Display illumination
- PIN coding
- Operating hours counter

Number of channels	Width	LED lamp	Program	Protection class	Adjustment range brightness	External inputs	Sensor (included)	Type	Art.-No.	SD	CD
1	2 modules	600 W	Weekly program	II, Sensor III	1 - 99000 lx	1	Surface-mounted light sensor	LUNA 121 top3 RC AL	1210130	136	177
							Built-in light sensor	LUNA 121 top3 RC EL	1210230	136	177
2	2 modules	600 W	Weekly program	II, Sensor III	1 - 99000 lx	-	Surface-mounted light sensor	LUNA 122 top3 RC AL	1220130	136	177
							Built-in light sensor	LUNA 122 top3 RC EL	1220230	136	177

### Analogue twilight switch wall mounting/pole mounting



- Twilight switch with integrated light sensor
- Cable feed possible from the rear and from below
- Captive screws
- Large terminal compartment
- Brightness value adjustment possible without opening the device from the outside
- Large light incidence angle (approx. 180 degrees)
- Switching brightness continuously adjustable
- **LUNA 126 star E**
- Fixed switch-on and switch-off delay
- LUNASTAR adapter plate included in the scope of delivery
- Switching brightness continuously adjustable
- **LUNA 127 star S**
- Adjustable switch-on and switch-off delay
- Test function
- Teach-in function
- Timer function (1 hour on)
- Switchable brightness range: 2-100 / 100-2000 lux

Number of channels	Width	LED lamp	Program	Protection class	Adjustment range brightness	External inputs	Type	Art.-No.	SD	CD
1		350 W	-	II	2 - 200 lx	-	LUNA 126 star E	1260901	148	177
1		600 W	-	II	2 - 2000 lx	-	LUNA 127 star S	1270900	148	177



# Digital clock thermostats RAMSES top3 series

## Convenient control via smartphone app



The digital clock thermostats of the RAMSES top3 series monitor and control the room temperature according to time. Whether it's a single-family house or an apartment, an office, a practice, a workshop or a retail store, the clock thermostats ensure the desired comfortable temperature and help you reduce your energy consumption as well as protect the environment.

- 3 individually programmable weekly programs, as well as comfort, eco and lowering function
- Party and eco function
- Holiday program
- Wall adjustment for room temperature measurement adjustment
- Adjustable optimizer for reaching the room setpoint temperature at the switching time
- External input alternatively for floor sensor, room temperature sensor, window contact and presence detector
- Chimney sweep function
- Info display (pump, flame, temperatures, etc.) and error messages



### Convenient operation

The RAMSES clock thermostats can be operated intuitively on the device: Setpoint temperature, various programs or even time-controlled temperatures and setback phases can be set here. Alternatively, the operation can also be done via the free app.



### High tamper resistance









The RAMSES top3 works with a local Bluetooth connection at your home. You don't need a cloud or additional gateways or routers. A clear advantage in terms of tamper resistance.



### Easy installation

In contrast to other smart thermostats, the RAMSES top3 does not require any additional components such as gateways, switching actuators, etc. Install the RAMSES top3 just like a conventional clock thermostat: Quick, easy and uncomplicated.



Program	Programming via app	Operating voltage	Contact type	Type	Page	
<b>Digital clock thermostats, display/app operation, 230 V/battery</b>						
	Weekly program	✓	Battery	NO contact	RAMSES 811 top3	108
			230 V AC	NO contact	RAMSES 812 top3	108
			230 V AC	NO contact	RAMSES 812 top3 16A	108
<b>Digital clock thermostats, display/app operation, radio system</b>						
	Weekly program	✓	Battery	Changeover contact	RAMSES 813 top3 HF Set 1	108
			Battery	NO contact	RAMSES 813 top3 HF Set A	108
<b>Digital clock thermostats, app operation, 230 V, AP</b>						
	Weekly program	✓	230 V AC	NO contact	RAMSES 812 BLE	108
<b>Digital clock thermostats, app operation, 230 V, flush-mounted</b>						
	Weekly program	✓	230 V AC	NO contact	RAMSES 814 BLE UP	109
<b>Digital clock thermostats, display/app operation, OpenTherm</b>						
	Weekly program	✓	OT bus	-	RAMSES 850 top3 OT	109
<b>Digital clock thermostats, app operation, OpenTherm</b>						
	Weekly program	✓	OT bus	-	RAMSES BLE OT	109
<b>Digital clock thermostats, 230 V, DIN rail</b>						
	Weekly program	-	230 V AC	Changeover contact	RAMSES 366/1 top2	110
<b>Analogue clock thermostats, 230 V/battery, segments</b>						
	Daily program	-	Battery	Changeover contact	RAMSES 784 S	110
			230 V AC	Changeover contact	RAMSES 722 S	110
<b>Analogue clock thermostats, 230 V/battery, tappets</b>						
	Daily/weekly program	-	Battery	Changeover contact	RAMSES 784	110
			230 V AC	Changeover contact	RAMSES 722	110
			230 V AC	Changeover contact	RAMSES 782	110
			230 V AC	Changeover contact	RAMSES 725	110



# Climate control

## Clock thermostats

### Digital clock thermostats, display/app operation, 230 V/battery



- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Operation on the device or via app
- Direct Bluetooth Low Energy (BLE) connection between app and clock thermostat
- Settings conveniently via app with intuitive operation from smartphone or tablet
- Increased ease of use
- 3 individually programmable weekly programs, as well as comfort, eco and setback functions
- Suitable for energy-saving room temperature control in single-family houses, apartments, etc.
- Illuminated display when button is pressed
- External input for flexible connection of optional external room temperature sensor, floor sensor, motion detector or telephone contact
- Intelligent control algorithm (pulse-duration controller, hysteresis controller)
- Suitable e.g. for on/off heating systems, zone or individual room control, electric heating systems

Program	Operating voltage	Switching capacity	External inputs	Power reserve	Type	Art.-No.	SD	CD
Weekly program, daily program, vacation program, 3 basic programs	2 AA mignon cells	10 A	1	Max. 10 min	RAMSES 811 top3	8119200	148	177
	230 V AC	10 A	1	4 hours	RAMSES 812 top3	8120200	148	177
		16 A	1	4 hours	RAMSES 812 top3 16A	8120210	148	177

### Digital clock thermostats, display/app operation, radio system



- Radio controlled system for room temperature control
- The system consists of digital clock thermostat and receiver
- Battery version (also for retrofitting with 2-wire connection)
- Mounting clock thermostat on flush-mounted box, wall mounting or with stand possible
- Operation on the device or via app
- Direct Bluetooth Low Energy (BLE) connection between app and clock thermostat
- Settings conveniently via app with intuitive operation from smartphone or tablet
- Increased ease of use
- 3 individually programmable weekly programs, as well as comfort, eco and setback functions
- Suitable for energy-saving room temperature control in single-family houses, apartments, etc.
- Illuminated display when button is pressed
- Intelligent control algorithm (pulse-duration controller, hysteresis controller)
- Suitable e.g. for on/off heating systems, zone or individual room control, electric heating systems

Program	Operating voltage	Switching capacity	External inputs	Receiver	Type	Art.-No.	SD	CD
Weekly program, daily program, vacation program, 3 basic programs	2 AA mignon cells	6 A	1	REC 11- Wall construction	RAMSES 813 top3 HF Set 1	8139201	148	177
		16 A	1	REC 1- DIN rail	RAMSES 813 top3 HF Set A	8139203	148	177

### Digital clock thermostats, app operation, 230 V, AP



- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Mains version
- Operation via app
- Suitable for energy-saving room temperature control in single-family houses, apartments, etc.
- Direct Bluetooth Low Energy (BLE) connection between app and clock thermostat
- Convenient settings via app with intuitive operation from smartphone or tablet
- Increased ease of use
- External input for flexible connection of either an outdoor temperature sensor, floor sensor, motion detector or telephone contact
- Intelligent control algorithm (pulse-duration controller, hysteresis controller)
- Suitable e.g. for on/off heating systems, zone or individual room control, electric heating systems

Program	Operating voltage	Switching capacity	External inputs	Power reserve	Type	Art.-No.	SD	CD
Weekly program	230 V AC	8 (1) A	-	4 hours	RAMSES 812 BLE	8120150	140	-



## Digital clock thermostats, app operation, 230 V, flush-mounted



- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Mains version
- Operation via app
- Suitable for energy-saving room temperature control in single-family houses, apartments, etc.
- Installation in flush-mounted box, can be used with any switch program or under blind cover
- Temperature sensor included in the scope of delivery
- Direct Bluetooth Low Energy (BLE) connection between app and clock thermostat
- Convenient settings via app with intuitive operation from smartphone or tablet
- Increased ease of use
- External input for flexible connection of optional external room temperature sensor, floor sensor, motion detector or telephone contact
- Intelligent control algorithm (pulse-duration controller, hysteresis controller)
- Suitable e.g. for on/off heating systems, zone or individual room control, electric heating systems

Program	Operating voltage	Switching capacity	External inputs	Power reserve	Type	Art.-No.	SD	CD
Weekly program	230 V AC	8 (1) A	-	4 years	RAMSES 814 BLE UP	8140150	148	-

## Digital clock thermostats, display/app operation, OpenTherm



- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Operation on the device or via app
- Power supply via OpenTherm bus
- Direct Bluetooth Low Energy (BLE) connection between app and clock thermostat
- Convenient settings via app with intuitive operation from smartphone or tablet
- Mounting on flush-mounted box or wall mounting possible
- Increased ease of use
- Communication with the heating system via OpenTherm bus
- 3 individually programmable weekly programs, as well as comfort, eco and lowering functions
- Suitable for energy-saving room temperature control in single-family houses, apartments, etc.
- Illuminated display when button is pressed
- External input for flexible connection of optional external room temperature sensor, floor sensor, motion detector or telephone contact
- PI room controller, weather-compensated controller with and without room influence
- Three heating and one domestic hot water weekly time program preset and changeable
- Suitable for modulating gas condensing boiler systems and modulating heating systems with OpenTherm interface, for example

Program	Operating voltage	Type	Art.-No.	SD	CD
Weekly program	OT bus	RAMSES 850 top3 OT	8509200	140	-

## Digital clock thermostats, app operation, OpenTherm



- Digital clock thermostat for time-dependent monitoring and control of room temperature
- Power supply via OpenTherm bus
- Operation via app
- Suitable for energy-saving room temperature control in single-family houses, apartments, etc.
- Direct Bluetooth Low Energy (BLE) connection between app and clock thermostat
- Convenient settings via app with intuitive operation from smartphone or tablet
- Increased ease of use
- Communication with the heating system via OpenTherm
- External input for flexible connection of either an outdoor temperature sensor, floor sensor, motion detector or telephone contact
- PI room controller, weather-compensated controller with and without room influence
- Three heating and one domestic hot water weekly time program preset and changeable
- Suitable for modulating gas condensing boiler systems and modulating heating systems with OpenTherm interface, for example

Program	Operating voltage	Type	Art.-No.	SD	CD
Weekly program	OT bus	RAMSES 850 BLE OT	8509150	140	-



# Climate control

## Clock thermostats

### Digital clock thermostats, 230 V, DIN rail



- 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
- Holiday program date-controlled
- Programming is graphically represented by a bar graph in the LCD display
- Fully automatic summer/winter time correction
- Manual switching preselection and operating mode selector switch for: Automatic mode, comfort mode, setback mode, frost protection mode
- PIN coding
- DuoFix spring terminals
- Text-oriented user guidance on the display
- Interface for OBELISK top2 memory card (copying programs)

Program	Operating voltage	Switching capacity	External inputs	Power reserve	Type	Art.-No.	SD	CD
Weekly program, daily program, vacation program	230 V AC	10 (2) A	1	10 years	RAMSES 366/1 top2	3660100	149	178

### Analogue clock thermostats, 230 V/battery, segments



- Analogue clock thermostat for time-dependent monitoring and control of the room temperature
- Segment program disc with daily program
- Normal and set-back temperature can be set separately
- Operating point and electronic feedback adjustable from the front
- Party switch and program display
- Selector switch for operating mode: permanent lowering temperature, permanent normal temperature, automatic mode, frost and plant protection +6 °C
- [RAMSES 784 S](#)
- Battery version
- Quartz mechanism
- [RAMSES 722 S](#)
- Mains version
- Synchronous motor drive

Program	Operating voltage	Switching capacity	Power reserve	Type	Art.-No.	SD	CD
Daily program	2 AA mignon cells	6 (1) A	-	RAMSES 784 S	7840801	149	178
Daily program	230 V AC	6 (1) A	-	RAMSES 722 S	7220801	149	178

### Analogue clock thermostats, 230 V/battery, tappets



- Analogue clock thermostat for time-dependent monitoring and control of the room temperature
- Tappet program disc with daily or weekly program
- Operating point and electronic feedback adjustable from the front
- Party switch and program display
- Selector switch for operating mode: permanent lowering temperature, permanent normal temperature, automatic mode, frost and plant protection +6 °C
- [RAMSES 784](#)
- Battery version
- [RAMSES 722](#)
- Mains version
- [RAMSES 782](#)
- Mains version
- Quartz mechanism, 3-day power reserve
- [RAMSES 725](#)
- Mains version

Program	Operating voltage	Switching capacity	Power reserve	Type	Art.-No.	SD	CD
Daily/weekly program	2 AA mignon cells	6 (1) A	-	RAMSES 784	7840030	149	178
Daily/weekly program	230 V AC	6 (1) A	-	RAMSES 722	7220030	149	178
Daily/weekly program	230 V AC	6 (1) A	3 days	RAMSES 782	7820030	149	178
Daily/weekly program	230 V AC	6 (1) A	-	RAMSES 725	7250030	149	178







Integrated CO<sub>2</sub>-Sensor!

## Lean solution against thick air Presence detector thePrema P360 KNX AP Multi with CO<sub>2</sub>-Sensor

The thePrema P360 KNX Multi presence detector from Theben with integrated CO<sub>2</sub> sensor not only detects the presence of people, but also the CO<sub>2</sub> concentration in the room. Good indoor air quality and DIN regular ventilation of closed rooms has never been as important as it is today. In offices and classrooms in particular, the permanent measurement of CO<sub>2</sub> concentration ensures that rooms can be ventilated in a targeted manner to minimize dangerous aerosols and improve air quality.

This is precisely where thePrema P360 KNX Multi from Theben comes in: The device combines a presence detector and a CO<sub>2</sub> sensor in a compact housing. People in the room are reliably detected. At the same time, the CO<sub>2</sub> concentration is measured precisely. Based on the easily definable threshold values, ventilation is controlled efficiently via the KNX building automation system.



Multi-sensor KNX



Consisting of KNX passive infrared presence detector and KNX room air sensor (= 2 bus devices)






Measures the CO<sub>2</sub> concentration, relative humidity, temperature and air pressure




### Simple installation and integration into the KNX building automation system

As several devices are combined in one housing, only a single device needs to be installed. This reduces the installation effort considerably. In addition to presence and CO<sub>2</sub> content, relative humidity, temperature and barometric air pressure are also recorded. This means that further KNX-based building control actions can be triggered with one device. Practical: thePrema KNX presence detectors that have already been installed can be easily and economically retrofitted.



Set basic KNX AP Multi WH for retrofitting in existing KNX detectors thePrema S/P KNX UP WH

	Function type	Connection type	Contact type	Operating voltage	Mounting type	Type	Page
<b>Mechanical room thermostats AP</b>							
	Mechanical	2-/3-conductor	NC contact		Wall structure	RAMSES 701	114
	Mechanical	3-/4-conductor	NC contact		Wall structure	RAMSES 703	114
	Mechanical	3-/4-conductor	NC contact		Wall structure	RAMSES 705	114
	Mechanical	4-/5-conductor	NC contact		Wall structure	RAMSES 706	114
	Mechanical	3-/4-conductor	Changeover contact		Wall structure	RAMSES 708	114
	Mechanical	4-/5-conductor	Changeover contact		Wall structure	RAMSES 709	114
<b>Mechanical room thermostats UP</b>							
	Mechanical	2-/3-conductor	NC contact		Flush-mounted	RAMSES 741	114
	Mechanical	4-/5-conductor	NC contact		Flush-mounted	RAMSES 746	114
	Mechanical	3-/4-conductor	Changeover contact		Flush-mounted	RAMSES 748	114
	Mechanical	2-/3-conductor	NC contact		Flush-mounted	RAMSES 741 RA	114
	Mechanical	4-/5-conductor	NC contact		Flush-mounted	RAMSES 746 RA	114
	Mechanical	3-/4-conductor	Changeover contact		Flush-mounted	RAMSES 748 RA	114
<b>Electronic room thermostats</b>							
	Electronic	4-/5-conductor	NC contact		Wall structure	RAMSES 714 A	115

	Function type	Type	Page
<b>Mobile CO<sub>2</sub>sensor</b>			
		AMUN 716 CO <sub>2</sub> Monitor	116
<b>CO<sub>2</sub>sensor</b>			
		AMUN 716 SR	116
<b>Hygrostat</b>			
		SOTHIS 715	116





# Climate control

## Room thermostats

### Mechanical room thermostats wall mounted



- Room thermostat 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 limiter or hold-open device
- **RAMSES 703**
- Internal setting: Temperature cannot be set from the outside. The temperature is set inside the appliance during commissioning
- Integrated temperature reduction (approx. 4 K) possible through control with timer
- **RAMSES 705**
- Switch for heating ON/OFF
- **RAMSES 706**
- Switch for heating ON/OFF+indicator lamp
- Integrated temperature reduction (approx. 4 K) possible through control with timer
- **RAMSES 708**
- Also suitable for air conditioners
- Changeover unit for heating or cooling
- **RAMSES 709**
- Also suitable for air conditioners
- Changeover unit for heating or cooling
- 3-way selector switch for: Comfort mode, lowering mode, external lowering Control lamp
- Integrated temperature reduction (approx. 4 K) possible through control with timer

Contact type	Heating/cooling switchable	Connection type	Function type	Mounting type	Switching capacity	Type	Art.-No.	SD	CD
NC contact	–	2-/3-conductor	Mechanical	Wall	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 701	7010001	149	178
NC contact	–	3-/4-conductor	Mechanical	Wall	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 703	7030001	149	<?>
NC contact	–	3-/4-conductor	Mechanical	Wall	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 705	7050001	149	179
NC contact	–	4-/5-conductor	Mechanical	Wall	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 706	7060001	149	179
Changeover contact	✓	3-/4-conductor	Mechanical	Wall	Heating: 10 A (at 230 V AC, cos φ = 1), heating: 4 A (at 230 V AC, cos φ = 0.6), cooling: 5 A (at 230 V AC, cos φ = 1), cooling: 2 A (at 230 V AC, cos φ = 0.6)	RAMSES 708	7080001	149	179
Changeover contact	✓	4-/5-conductor	Mechanical	Wall	Heating: 10 A (at 230 V AC, cos φ = 1), heating: 4 A (at 230 V AC, cos φ = 0.6), cooling: 5 A (at 230 V AC, cos φ = 1), cooling: 2 A (at 230 V AC, cos φ = 0.6)	RAMSES 709	7090001	149	179

### Mechanical room thermostats flush-mounted



- Room thermostat with thermal feedback
- Setting controller with mechanical setting limiter or hold-open device
- Center plate fits into almost any frame via the switch manufacturer's adapter frame
- Ideal controller for modernization and new construction
- **RAMSES 746**
- Switch for heating ON/OFF + indicator lamp
- External temperature reduction (approx. 4 K) possible through control with timer switch
- **RAMSES 748**
- Changeover unit for heating/cooling

Contact type	Heating/cooling switchable	Connection type	Scope of delivery	Switching capacity	Type	Art.-No.	SD	CD
NC contact	–	2-/3-conductor	Without cover	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 741	7410130	149	179
NC contact	–	4-/5-conductor	Without cover	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 746	7460130	149	179
Changeover contact	✓	3-/4-conductor	Without cover	Heating: 10 A (at 230 V AC, cos φ = 1), heating: 4 A (at 230 V AC, cos φ = 0.6), cooling: 5 A (at 230 V AC, cos φ = 1), cooling: 1 A (at 230 V AC, cos φ = 0.6)	RAMSES 748	7480130	149	180
NC contact	–	2-/3-conductor	With cover	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 741 RA	7410131	149	179
NC contact	–	4-/5-conductor	With cover	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)	RAMSES 746 RA	7460131	149	179
Changeover contact	✓	3-/4-conductor	With cover	Heating: 10 A (at 230 V AC, cos φ = 1), heating: 4 A (at 230 V AC, cos φ = 0.6), cooling: 5 A (at 230 V AC, cos φ = 1), cooling: 1 A (at 230 V AC, cos φ = 0.6)	RAMSES 748 RA	7480131	149	180



## Electronic room thermostats



- Electronic room thermostat for all types of heating, e.g. gas, water, electric heating, etc.
- Individual room control is possible in combination with Theben actuators
- Heating status display via LED
- Integrated temperature reduction (approx. 3.5 K) is possible by controlling with a timer. Temperature reduction can be reduced to 2 K by opening a wire jumper

Contact type	Heating/cooling switchable	Connection type	Function type	Mounting type	Switching capacity	Type	Art.-No.	SD	CD
NC contact	–	4-/5-conductor	Electronic	Wall	16 A (at 230 V AC, cos φ = 1)	RAMSES 714 A	7140016	149	180



# Climate control Sensors

## Mobile CO<sub>2</sub>sensor



- Mobile CO<sub>2</sub>sensor with USB cable for measuring air quality
- Suitable for schools / kindergartens, offices, conference or meeting rooms and living rooms
- In the event of a potentially dangerous CO<sub>2</sub>concentration, the device issues a visual warning via the LED traffic light system, allowing ventilation to be optimized immediately and a healthy indoor climate to be created
- Threshold value green: Up to 1,000 ppm CO<sub>2</sub>, hygienically OK, everything in the green zone!
- Threshold value orange: Up to 2,000 ppm CO<sub>2</sub>, hygienically conspicuous, ventilation - good idea!
- Threshold value red: Over 2,000 ppm CO<sub>2</sub>, hygienically unacceptable, ventilation is an absolute must!
- Fresh air must be supplied and stale air extracted at the latest when the red threshold value is reached
- Includes USB cable for easy commissioning
- Stand and non-slip pad included in the scope of delivery, alternative wall mounting is also possible
- Development based on the Federal Environment Agency's recommendation for CO<sub>2</sub> in indoor air in accordance with various guidelines, e.g. the Bavarian "Guideline for the promotion of investment costs for technical measures for infection protection ventilation in schools (FILS-R)"

Display	Operating voltage	Measuring range CO <sub>2</sub>	Type	Art.-No.	SD	CD
LED	5 V DC via USB bus voltage	0 - 5000 ppm	AMUN 716 CO <sub>2</sub> Monitor	7169100	140	-

## CO<sub>2</sub>sensor



- Room air sensor for fan control, for measuring the CO<sub>2</sub>concentration, relative humidity and temperature
- Visual display via the LED traffic light system, adjustable threshold values
- 2 switching outputs CO<sub>2</sub>-controlled for 2-stage control, with manual and automatic operation and display of the switching status | 3 outputs 0-10 V for CO<sub>2</sub>, temperature and relative humidity
- Simple retrofitting of uncontrolled ventilation systems possible
- Green display: 1. Threshold value adjustable from 500 to 900 ppm
- Yellow display: 2. Threshold value adjustable from 1100 to 1500 ppm
- Red display: over 2. Threshold
- Suitable power supply unit for flush mounting optionally available
- Suitable for schools / kindergartens, offices, conference or meeting rooms and living rooms

Display	Operating voltage	Output	Measuring range CO <sub>2</sub>	Humidity measuring range	Temperature measuring range	Type	Art.-No.	SD	CD
LED	24 V AC/DC SELV	3 x 0-10 V, 2 x relay 5 A / 250 V AC	0 - 5000 ppm	30 - 80 % RH	5°C ... 40°C	AMUN 716 SR	7160110	140	-

## Hygrostat



- Hygrostat for wall mounting
- Measurement of relative humidity
- Suitable for controlling humidifiers or ventilation and dehumidification systems
- Use SELV if there is a risk of dripping water or condensation forming in the housing

Type	Art.-No.	SD	CD
SOTHIS 715	7150002	149	180













Description	Suitable for	Art.-No.
 <p><b>Wall mounting kit 35 mm</b> • Wall mounting set for surface mounting, sealable</p>	All DIN-rail devices 2 modules	9070064
 <p><b>Wall mounting kit 17.5 mm</b> • Wall mounting set for surface mounting, sealable</p>	All DIN-rail devices 1 module	9070065
 <p><b>Wall mounting kit 52.5 mm</b> • Wall mounting set for surface mounting, sealable</p>	All DIN-rail devices 3 modules	9070050
 <p><b>Wall mounting kit 70 mm</b> • Wall mounting set for surface mounting, sealable</p>	All DIN-rail devices 4 modules	9070049
 <p><b>Terminal cover 52.5 mm</b> • Terminal cover for surface mounting, sealable</p>	SUL 188 g, SUL 188 hw	9070061
 <p><b>Front panel kit</b> • The front panel installation kit is suitable for Theben distribution board installation devices with a width of 17.5 to 107.5 mm</p>	All DIN-rail devices	9070001
 <p><b>Snap-on mounting 72 x 72</b> • Quick fastening for 35 mm DIN rail</p>	All appliances front panel mounting/ wall mounting	9070071
 <p><b>PC set OBELISK top2/3</b> • Consisting of: OBELISK top2 memory card, USB plug-in adapter</p>	TR top2, TR top3, LUNA top3, SELEKTA top2, TR top2 KNX	9070409



## Technical appendix

### Accessories





	Description	Suitable for	Art.-No.
	<b>Bluetooth OBELISK top3</b> • Dimensions and weights	TR top3, SELEKTA top3, LUNA top3, theben-eltimo top3	9070130
	<b>Memory card OBELISK top2</b> • Single memory card	TR top2, TR top3, LUNA top3, SELEKTA top2, TR top2 KNX	9070404
	<b>Antenna RC-DCF</b> • The connection is made via a separate 2-wire, unshielded power cable (max. 100 m), to which up to 5 Theben devices can be connected	TR top2 RC, TR top3 RC, LUNA top3 RC, SELEKTA top2, SELEKTA top3, TR top2 KNX	9070410
	<b>Antenna RC-GNSS</b> • Dimensions: 95 x 48 x 45 mm	TR top2 RC, TR top3 RC, LUNA top3 RC, SELEKTA top2, SELEKTA top3, TR top2 KNX	9070823
	<b>Antenna RC-GNSS R</b> • The antenna is connected to Theben top2/top3 RC devices via a 2-wire cable (max. 100 m) (up to 5 devices can be connected depending on the device type)	TR top2 RC, TR top3 RC, LUNA top3 RC, SELEKTA top2, SELEKTA top3, TR top2 KNX	9070807
	<b>Cover 55 x 55 for BZ</b> • Cover for operating hours counter	BZ 142-1	9070041
	<b>Aperture 72 x 72 for BZ</b> • Cover for operating hours counter	BZ 142-1	9070074
	<b>Surface frame 110A WH</b> • Colour: Pure white	thePrema UP conventional, theRonda UP, theMova UP, thePassa UP	9070912
	<b>Surface frame 110A GR</b> • Colour: Grey	thePrema UP conventional, theRonda UP, theMova UP, thePassa UP	9070913
	<b>Surface frame 110A BK</b> • Colour: Black	thePrema UP conventional, theRonda UP, theMova UP, thePassa UP	9070600

	Description	Suitable for	Art.-No.
	<b>Surface frame 110B WH</b> • Colour: Pure white	thePrema KNX	9070918
	<b>Surface frame 110B GR</b> • Colour: Grey	thePrema KNX	9070919
	<b>Surface frame 110B BK</b> • Colour: Black	thePrema KNX	9070435
	<b>Ceiling installation box 68A</b> • 850 °C glow-wire tested	All flush-mounted detectors	9070992
	<b>Cover 110 GR</b> • Cover frame in gray	theRonda UP, theMova UP, thePassa UP	9070591
	<b>Cover 110 BK</b> • Cover frame in black	theRonda UP, theMova UP, thePassa UP	9070851
	<b>Cover 85 GR</b> • Cover frame in gray	theRonda DE, theMova DE	9070594
	<b>Cover 85 BK</b> • Cover frame in black	theRonda DE, theMova DE	9070852
	<b>Cover FLAT 85 GR</b> • Cover frame in gray	theRonda FLAT DE, theMova FLAT DE	9070597
	<b>Cover FLAT 85 BK</b> • Cover frame in black	theRonda FLAT DE, theMova FLAT DE	9070853
	<b>Masking clip</b> • 5 pieces included	theRonda UP, theMova UP, thePassa UP	9070921
	<b>Surface frame 75B WH</b> • Suitable for PlanoSpot	PlanoSpot	9070796
	<b>Surface frame 75B BK</b> • Suitable for PlanoSpot	PlanoSpot	9070824
	<b>PlanoCover 76 WH</b> • Colour: White	PlanoSpot	9070976
	<b>PlanoCover 76 BK</b> • Colour: Black	PlanoSpot	9070977



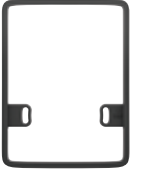









## Technical appendix

### Accessories

	Description	Suitable for	Art.-No.
	<b>PlanoCover 76 SR</b> • Colour: Silver	PlanoSpot	9070978
	<b>Cover 46 BK</b> • Cover frame in black	thePiccola	9070797
	<b>Surface box LUXA 103 BK</b> • Frame for LUXA 103 conventional • Colour: Black	LUXA 103 S360 AP	9070843
	<b>Surface box LUXA 103 GR</b> • Frame for LUXA 103 conventional • Colour: Concrete grey	LUXA 103 S360 AP	9070844
	<b>Surface box LUXA 103 B WH</b> • Surface-mounted frame for LUXA 103 KNX/LUXORliving BI360 • Colour: White	LUXA 103 KNX/ LUXORliving BI360	9080019
	<b>Surface box LUXA 103 B GR</b> • Surface-mounted frame for LUXA 103 KNX/LUXORliving BI360 • Colour: Concrete grey	LUXA 103 KNX/ LUXORliving BI360	9080020
	<b>Surface box LUXA 103 B BK</b> • Surface-mounted frame for LUXA 103 KNX/LUXORliving BI360 • Colour: Black	LUXA 103 KNX/ LUXORliving BI360	9080021
	<b>QuickSafe ball protection cage</b> • Particularly impact-resistant	All detectors	9070531
	<b>RC filter</b> • Interference suppression filter for presence and motion detectors	All detectors	9070523



Description	Suitable for	Art.-No.
 <p><b>Spacer theLuxe S BK</b>            • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)</p>	theLuxe S	9070907
 <p><b>Spacer theLuxe S WH</b>            • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)</p>	theLuxe S	9070906
 <p><b>Spacer theLuxe P BK</b>            • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)</p>	theLuxe P	9070909
 <p><b>Spacer theLuxe P WH</b>            • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)</p>	theLuxe P	9070908
 <p><b>Corner angle theLuxe E BK</b>            • For corner mounting of the motion detector</p>	theLuxe E	9070975
 <p><b>Corner angle theLuxe E WH</b>            • For corner mounting of the motion detector</p>	theLuxe E	9070974
 <p><b>Corner angle theLuxe S BK</b>            • For corner mounting of the motion detector</p>	theLuxe S	9070903
 <p><b>Corner angle theLuxe S WH</b>            • For corner mounting of the motion detector</p>	theLuxe S	9070902
 <p><b>Corner angle theLuxe P BK</b>            • For corner mounting of the motion detector</p>	theLuxe P	9070905
 <p><b>Corner angle theLuxe P WH</b>            • For corner mounting of the motion detector</p>	theLuxe P	9070904



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### Accessories





	Description	Suitable for	Art.-No.
	<b>Corner angle 10 AL</b> • For corner mounting of the LED spotlight	theLeda D	9070970
	<b>Corner angle 10 BK</b> • For corner mounting of the LED spotlight	theLeda S, theLuxe R	9070987
	<b>Corner angle 10 WH</b> • For corner mounting of the LED spotlight	theLeda S, theLuxe R	9070969
	<b>Spacer 10 AL</b> • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)	theLeda D	9070972
	<b>Spacer 10 BK</b> • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)	theLeda S, theLuxe R	9070988
	<b>Spacer 10 WH</b> • Spacer for flexible installation (cable entry at the bottom, side, top and more space for cable routing)	theLeda S, theLuxe R	9070971
	<b>Surface frame 100A WH</b> • Colour: Pure white	LUXA 104	9070819
	<b>Surface frame LUXA 103-100 U</b> • Frame for surface mounting the motion detector	LUXA 103-100 UA	9070986
	<b>Surface frame LUXA 103-200</b> • Suitable for theMura and LUXA 103-200	LUXA 103-200 theMura	9070504
	<b>Adapter frame 45A BJBA WH</b> • Suitable for Busch-Jaeger balance SI • Adapter frame and push-button cover included in the scope of delivery	theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP	9070788







	Description	Suitable for	Art.-No.
	<p><b>Adapter frame 45A BJBA CL</b></p> <ul style="list-style-type: none"> <li>• Suitable for Busch-Jaeger balance SI</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9080002</p>
	<p><b>Adapter frame 45A BJRE WH</b></p> <ul style="list-style-type: none"> <li>• Suitable for Busch-Jaeger Reflex SI</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9070754</p>
	<p><b>Adapter frame 45A BJRE CL</b></p> <ul style="list-style-type: none"> <li>• Suitable for Busch-Jaeger Reflex SI</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9080001</p>
	<p><b>Adapter frame 45A JUAS WH</b></p> <ul style="list-style-type: none"> <li>• Suitable for Jung SERIES A (A 500, A plus, A creation, AS 500)</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9070789</p>
	<p><b>Adapter frame 45A JUAS CL</b></p> <ul style="list-style-type: none"> <li>• Suitable for Jung SERIES A (A 500, A plus, A creation, AS 500)</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9080003</p>
	<p><b>Adapter frame 45A MEMP WH</b></p> <ul style="list-style-type: none"> <li>• Suitable for Merten System M (1-M, Atelier-M, M-Smart, M-Pure, M-Plan, M-Creativ)</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9070790</p>
	<p><b>Adapter frame 45A MEMP CL</b></p> <ul style="list-style-type: none"> <li>• Suitable for Merten System M (1-M, Atelier-M, M-Smart, M-Pure, M-Plan, M-Creativ)</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9080004</p>
	<p><b>Adapter frame 45A GIST WH</b></p> <ul style="list-style-type: none"> <li>• Suitable for Gira System 55 (Standard 55, E2, Event, Esprit)</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9070791</p>
	<p><b>Adapter frame 45A GIST CL</b></p> <ul style="list-style-type: none"> <li>• Suitable for Gira System 55 (Standard 55, E2, Event, Esprit)</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	<p>theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP</p>	<p>9080005</p>



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### Accessories

	Description	Suitable for	Art.-No.
	<b>Adapter frame 45A BES1 WH</b> <ul style="list-style-type: none"> <li>• Suitable for Berker S.1</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP	9070792
	<b>Adapter frame 45A BES1 CL</b> <ul style="list-style-type: none"> <li>• Suitable for Berker S.1</li> <li>• Adapter frame and push-button cover included in the scope of delivery</li> </ul>	theMura, 4-way push-button module, TR 030 top3 UP, SELEKTA 070 top3 UP	9080006
	<b>Motion module RC theLeda B WH</b> <ul style="list-style-type: none"> <li>• Remote-controlled motion detector module</li> <li>• Detection angle 180° at 12 m range</li> <li>• Duty cycle range: 5 s- 15 min</li> <li>• Switch-on brightness: Adjustable from 2-1,000 lux</li> <li>• One theLeda B remote control included with the motion detector module</li> </ul>	theLeda B	9070800
	<b>Motion module RC theLeda B BK</b> <ul style="list-style-type: none"> <li>• Remote-controlled motion detector module</li> <li>• Detection angle 180° at 12 m range</li> <li>• Duty cycle range: 5 s- 15 min</li> <li>• Switch-on brightness: Adjustable from 2-1,000 lux</li> <li>• One theLeda B remote control included with the motion detector module</li> </ul>	theLeda B	9070801
	<b>Motion module theLeda B WH</b> <ul style="list-style-type: none"> <li>• Detection angle 180° at 12 m range</li> <li>• Duty cycle range: 5 s- 15 min</li> <li>• Switch-on brightness: Adjustable from 2-1,000 lux</li> </ul>	theLeda B	9070760
	<b>Motion module theLeda B BK</b> <ul style="list-style-type: none"> <li>• Detection angle 180° at 12 m range</li> <li>• Duty cycle range: 5 s- 15 min</li> <li>• Switch-on brightness: Adjustable from 2-1,000 lux</li> </ul>	theLeda B	9070761
	<b>Light module theLeda B WH</b> <ul style="list-style-type: none"> <li>• Duty cycle range: 2, 4, 6, 8 hours, Night On/Duration On</li> </ul>	theLeda B	9070762
	<b>Light module theLeda B BK</b> <ul style="list-style-type: none"> <li>• Duty cycle range: 2, 4, 6, 8 hours, Night On/Duration On</li> </ul>	theLeda B	9070763
	<b>Remote control theLeda B</b> <ul style="list-style-type: none"> <li>• Remote control for motion detector module RC theLeda B</li> <li>• A remote control can be combined with various motion detector modules</li> <li>• Up to 6 remote controls can be combined with one motion detector module</li> <li>• Remote control range up to 100 m</li> </ul>	Motion sensor RC theLeda B	9070802






Description	Suitable for	Art.-No.
 <p><b>theSenda B</b></p> <ul style="list-style-type: none"> <li>BLE remote control for use with theSenda Plug app or as a user remote control</li> </ul>	<p>theLeda D, theMova, thePrema, theRonda, PlanoSpot, thePassa, LUXA 103 S360, thePiccola P, LUXA 104, theMura</p>	<p>9070985</p>
 <p><b>theSenda P</b></p> <ul style="list-style-type: none"> <li>Remote control for commissioning by the installer</li> </ul>	<p>theLuxa P, theLeda D, theMova, thePrema, theRonda, PlanoSpot, thePassa, LUXA 103 S360, thePiccola P, LUXA 104, theMura</p>	<p>9070910</p>
 <p><b>theSenda S</b></p> <ul style="list-style-type: none"> <li>Remote control for the end user to override the respective devices</li> </ul>	<p>theLuxa P, theLeda D, theMova, thePrema, theRonda, PlanoSpot, thePassa, LUXA 103 S360, thePiccola P, LUXA 104, theMura</p>	<p>9070911</p>
 <p><b>Spike theLeda D B</b></p> <ul style="list-style-type: none"> <li>Ground spike for ground mounting of theLeda D B LED bollard lights</li> </ul>	<p>theLeda D B</p>	<p>9070765</p>
 <p><b>Adapter plate LUNA star</b></p> <ul style="list-style-type: none"> <li>The adapter plate simplifies the replacement of defective twilight switches from e.g. Eberle, ESYLUX, Legrand, Grässlin, Hager, Merten, Senmatic, Theben</li> </ul>	<p>LUNA star</p>	<p>9070486</p>
 <p><b>LUNA star adapter pole mounting</b></p> <ul style="list-style-type: none"> <li>Adapter for attaching the LUNA star products to the pole mounting S</li> </ul>	<p>LUNA star</p>	<p>9070793</p>
 <p><b>Digital surface-mounted light sensor</b></p> <ul style="list-style-type: none"> <li>Dimensions: 95 x 48 x 45 mm</li> </ul>	<p>LUNA 110 plus, LUNA top3, LUNA 134 KNX</p>	<p>9070415</p>
 <p><b>Digital flush-mounted light sensor</b></p> <ul style="list-style-type: none"> <li>Protection class IP 66 (front)   IP 40 (rear)</li> </ul>	<p>LUNA 110 plus, LUNA top3, LUNA 134 KNX</p>	<p>9070456</p>
 <p><b>Surface-mounted light sensor plus</b></p> <ul style="list-style-type: none"> <li>Dimensions: 95 x 48 x 45 mm</li> </ul>	<p>LUNA 108 plus</p>	<p>9070991</p>



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	Description	Suitable for	Art.-No.
	<b>Flush-mounted light sensor plus</b> • Protection class IP 66 (front)   IP 40 (rear)	LUNA 108 plus	9070990
	<b>Compensation module LED</b> • LED compensation module for dimmers	DIMAX	9070825
	<b>Diode module</b> • 2 diode modules included in the scope of delivery	DIMAX 534 plus	9070367
	<b>Adapter RAMSES 72x/78x</b> • Wallpaper/wall cover plate when replacing RAMSES 3xx devices with new clock thermostats e.g. RAMSES 722	RAMSES 722, RAMSES 782, RAMSES 784, RAMSES 721, RAMSES 725	9070245
	<b>Adapter plate RAMSES 70x</b> • Adapter plate 79 x 79 mm for flush-mounted box	RAMSES 701-709	9070480
	<b>RAMSES 714 adapter plate</b> • Adapter plate 79 x 79 mm for flush-mounted box	SOTHIS 715, RAMSES 714, RAMSES 714 A, RAMSES 714 A/FH	9070212
	<b>Ext. Temperature sensor 1</b> • External temperature sensor	RAMSES 366/1 top2, TA 4 S DALI-2	9070191
	<b>Ext. Temperature sensor 2</b> • With temperature adjustment $\pm 3$ K	RAMSES 366/1 top2	9070192
	<b>Temp. sensor RAMSES IP65</b> • External room temperature sensor	RAMSES top3, AMUN 716 S KNX, RAMSES 718 KNX, RAMSES BLE, flush-mounted actuators, TA 4/6/8 S KNX, LUXORliving T4/T8, FCA KNX, TA 4 S DALI-2	9070459
	<b>Floor sensor</b> • Protection class IP 65	RAMSES top3, AMUN 716 S KNX, RAMSES 718 KNX, RAMSES BLE, flush-mounted actuators, TA 4/6/8 S KNX, LUXORliving T4/T8, FCA KNX, TA 4 S DALI-2	9070321






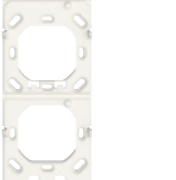
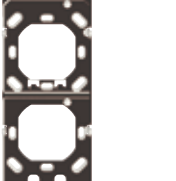


	Description	Suitable for	Art.-No.
	<b>Plunge sensor RAMSES</b> • Also required for applications with domestic hot water control or boiler immersion sensor		9070379
	<b>Temperature sensor UP</b> • Compact design for easy installation in switch/distribution boxes	AMUN 716 S KNX, RAMSES 718 KNX, flush-mounted actuators, TA 4/6/8 S KNX, LUXORliving T4/T8, FCA KNX, TA 4 S DALI-2	9070496
	<b>Valve adapter VA 80</b> • Valve adapter for Onda, locks (from model year . 93), Oventrop (M 30 x 1.5), Heimeier, Herb, Therm-Concept, Frank, Roth (manifold), Dinotherm (manifold)	ALPHA 5 230 V, ALPHA 5 24 V, CHEOPS S KNX	9070437
	<b>Valve adapter VA 78</b> • VA 02   M 30 x 1.5   Velta	ALPHA 5 230 V, ALPHA 5 24 V, CHEOPS S KNX	9070436
	<b>RAMSES 741/748 center plate</b> • Center plate without switch cut-out + adjustment knob	RAMSES 741, RAMSES 748	9070602
	<b>Actuator ALPHA 5 230 V</b> • 100% protection against actuator damage due to leaking valves	All clock thermostats, RAMSES 701-709, RAMSES 741-748, RAMSES 714, RAMSES 751, HMG 6 T KNX, HME 6 T KNX, HM 6 T KNX, HM 12 T KNX, HU 1 KNX, HU 1 S RF KNX, LUXORliving H1, LUXORliving H1 S RF	9070441
	<b>Actuator ALPHA 5 24 V</b> • 100% protection against actuator damage due to leaking valves	All clock thermostats, HMG 6 T KNX, HME 6 T KNX, HM 6 T KNX, HM 12 T KNX, HMT 6 S KNX, HMT 12 S KNX	9070442
	<b>Power supply unit CO<sub>2</sub>-sensor</b> • Power supply unit for flush mounting 24 V/12 W (SELV)	AMUN 716 SR	9070494
	<b>Mast mounting S</b> • Mast diameter 48-60 mm	LUXORliving M140, Meteodata KNX, LUNA 131 S KNX, LUNA 133 KNX	9070928





## Technical appendix

### Accessories

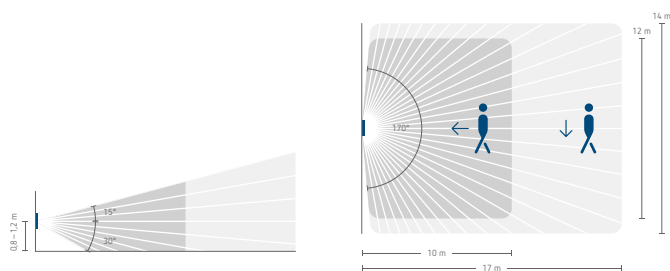
	Description	Suitable for	Art.-No.
	<p><b>MIX2 Secure bus module</b></p> <ul style="list-style-type: none"> <li>Bus coupler for upgrading existing MIX2 basic devices to KNX TP Secure</li> </ul>	KNX MIX2 basic devices	9070084
	<p><b>Rocker 1-way WH</b></p> <ul style="list-style-type: none"> <li>1-way rocker for LUXORliving and KNX push-button actuator modules (including mounting frame)</li> </ul>	Push-button actuator modules LUXORliving and KNX	9080026
	<p><b>Rocker 2-way WH</b></p> <ul style="list-style-type: none"> <li>2-way rocker for LUXORliving and KNX push-button actuator modules (including mounting frame)</li> </ul>	Push-button actuator modules LUXORliving and KNX	9080027
	<p><b>Surface box iON WH</b></p> <ul style="list-style-type: none"> <li>Housing for surface-mounted installation of iON LUXORliving and KNX</li> <li>Colour white</li> </ul>	iON	9080024
	<p><b>Surface box iON BK</b></p> <ul style="list-style-type: none"> <li>Housing for surface-mounted installation of iON LUXORliving and KNX</li> <li>Colour black</li> </ul>	iON	9080025
	<p><b>Mounting plate 2-way iON</b></p> <ul style="list-style-type: none"> <li>For vertical mounting of two iON push-button sensors on standard double box (standard combination distance 71 mm)</li> </ul>	iON KNX, LUXORliving iON	9070822
	<p><b>Mounting plate 2-way iON BK</b></p> <ul style="list-style-type: none"> <li>For vertical mounting of two iON push-button sensors on standard double box (standard combination distance 71 mm)</li> </ul>	iON KNX, LUXORliving iON	9070855
	<p><b>4-way push-button module</b></p> <ul style="list-style-type: none"> <li>4-way push-button module including temperature sensor</li> </ul>	TU 4 S RF KNX, TA 6 S KNX, LUXORliving T 4 RF	9070806
	<p><b>24 V DC power supply unit</b></p> <ul style="list-style-type: none"> <li>Installation width 3 HP (52.5 mm)</li> </ul>	Metedata 24V KNX	9079330



# Technical appendix

## Detection areas

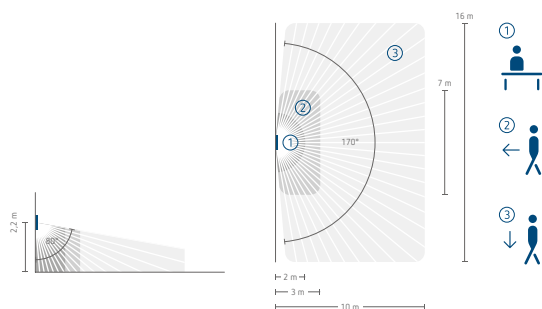
### theMura



Mounting height (A)	Head on to (R)	Diagonally (t)
1,1 m	120 m <sup>2</sup>   12 m x 10 m	238 m <sup>2</sup>   14 m x 17 m

Reference: 2060650, 2060655, 2060660, 2060670, 2060750, 2060755, 2060760, 2060770, 2069650, 2069655, 4800350

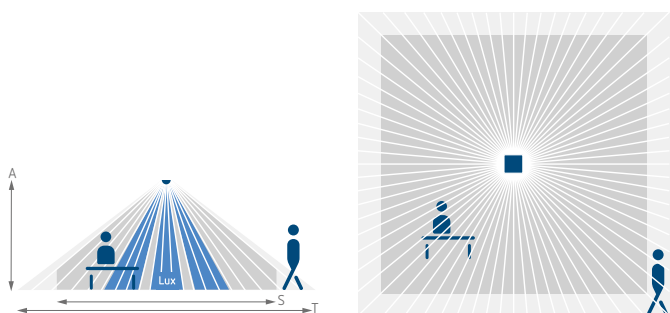
### theMura 2.20



Mounting height (A)	Head on to (R)	Diagonally (t)
2,2 m	21 m <sup>2</sup>   7 m x 3 m	160 m <sup>2</sup>   16 m x 10 m

Reference: 2060658, 2069658

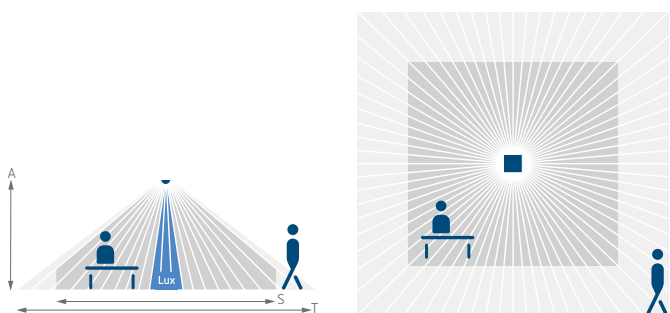
### thePrema P



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

Reference: 2070105, 2070106, 2070107, 2070130, 2070131, 2070132, 2079000, 2079001, 2079002, 2079900

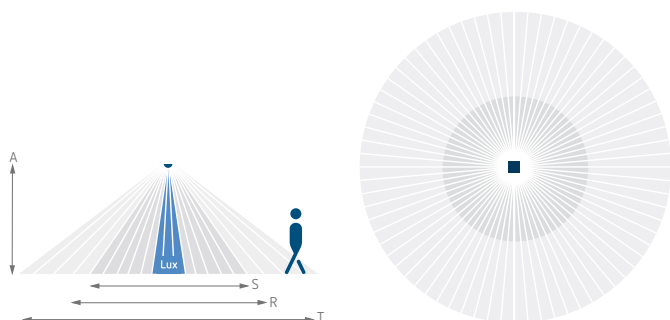
### thePrema S/PlanoSpot



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

Reference: 2030190, 2039100, 2079500, 2079501, 2079502, 2070600, 2070601, 2070602, 2070605, 2070606, 2070607, 2070630, 2070631, 2070632

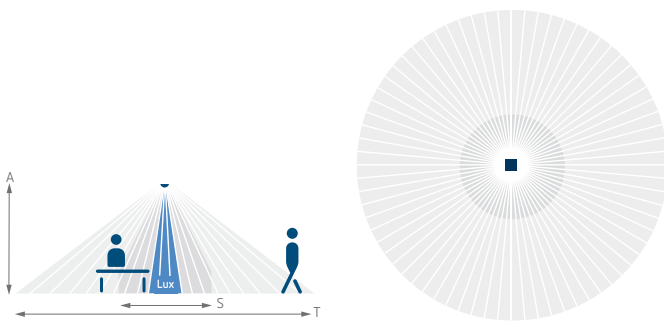
### thePiccola P



Mounting height (A)	Sitting (S)	Diagonally (T)	Head on to (R)
2,5 m	3 m <sup>2</sup>   2 m	50 m <sup>2</sup>   8 m	3 m <sup>2</sup>   2 m

Reference: 2090200, 2099200

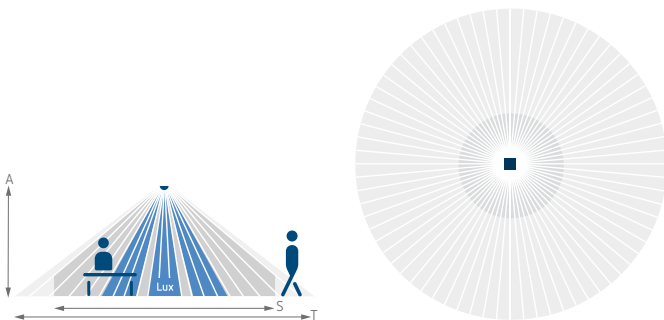
### theRonda P



Mounting height (A)	Sitting (S)	Diagonally walking (T)	Head on to (R)
2 m	16 m <sup>2</sup>   4,5 m	380 m <sup>2</sup>   22 m	28 m <sup>2</sup>   6 m
2,5 m	24 m <sup>2</sup>   5,5 m	415 m <sup>2</sup>   23 m	38 m <sup>2</sup>   7 m
3 m	28 m <sup>2</sup>   6 m	452 m <sup>2</sup>   24 m	50 m <sup>2</sup>   8 m
3,5 m	38 m <sup>2</sup>   7 m	452 m <sup>2</sup>   24 m	50 m <sup>2</sup>   8 m
6 m	-	452 m <sup>2</sup>   24 m	50 m <sup>2</sup>   8 m
10 m	-	491 m <sup>2</sup>   25 m	50 m <sup>2</sup>   8 m

Reference: 2080010, 2080020, 2080025, 2080030, 2080040, 2080580, 2080590, 2089000, 2090200

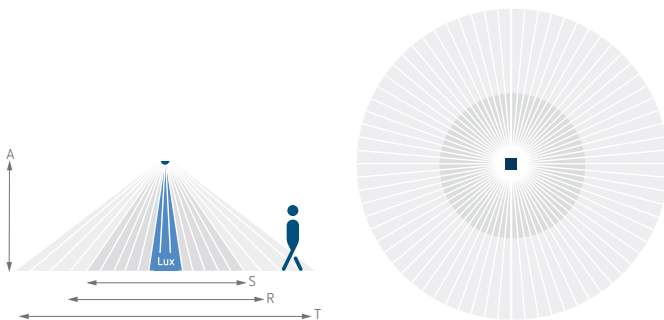
### theRonda P360-330



Mounting height (A)	Sitting (S)	Diagonally walking (T)	Head on to (R)
2 m	16 m <sup>2</sup>   4,5 m	380 m <sup>2</sup>   22 m	28 m <sup>2</sup>   6 m
2,5 m	24 m <sup>2</sup>   5,5 m	415 m <sup>2</sup>   23 m	38 m <sup>2</sup>   7 m
3 m	28 m <sup>2</sup>   6 m	452 m <sup>2</sup>   24 m	50 m <sup>2</sup>   8 m
3,5 m	38 m <sup>2</sup>   7 m	452 m <sup>2</sup>   24 m	50 m <sup>2</sup>   8 m
6 m	-	452 m <sup>2</sup>   24 m	50 m <sup>2</sup>   8 m
10 m	-	491 m <sup>2</sup>   25 m	50 m <sup>2</sup>   8 m

Reference: 2080045, 2080090, 2080095

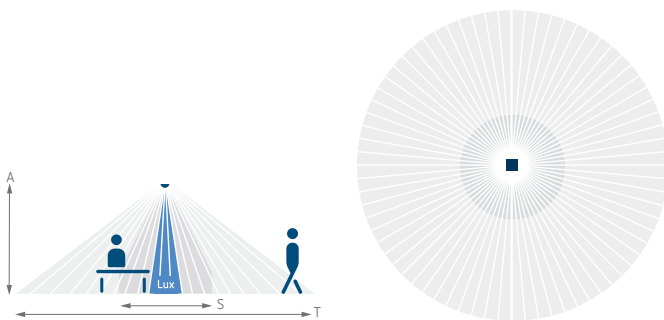
### theRonda S



Mounting height (A)	Sitting (S)	Diagonally (T)	Head on to (R)
2 m	5 m <sup>2</sup>   2,5 m	38 m <sup>2</sup>   7 m	5 m <sup>2</sup>   2,5 m
2,5 m	7 m <sup>2</sup>   3 m	38 m <sup>2</sup>   7 m	7 m <sup>2</sup>   3 m
3 m	13 m <sup>2</sup>   4 m	50 m <sup>2</sup>   8 m	13 m <sup>2</sup>   4 m
3,5 m	-	50 m <sup>2</sup>   8 m	13 m <sup>2</sup>   4 m
4 m	-	64 m <sup>2</sup>   9 m	13 m <sup>2</sup>   4 m

Reference: 2080520, 2080525, 2080530, 2080540, 2080545, 2080550, 2080551, 2080552, 2080555, 2080556, 2080557, 2080560, 2080565, 2080570, 2089520, 2089550, 2089551, 2089552, 2089560

### LUXA 104 S360-200-24



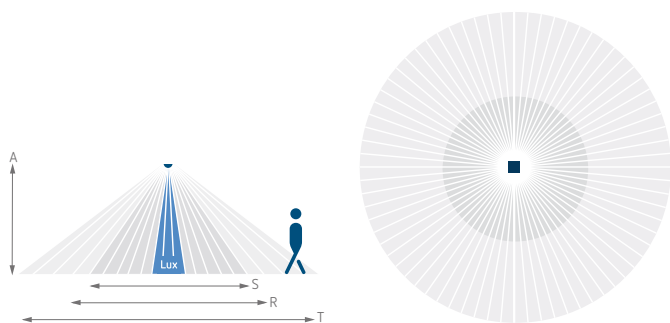
Mounting height (A)	Sitting (S)	Diagonally (T)
2 m	16 m <sup>2</sup>   4,5 m	380 m <sup>2</sup>   22 m
2,5 m	24 m <sup>2</sup>   5,5 m	415 m <sup>2</sup>   23 m
3 m	28 m <sup>2</sup>   6 m	452 m <sup>2</sup>   24 m
3,5 m	38 m <sup>2</sup>   7 m	452 m <sup>2</sup>   24 m
6 m	-	452 m <sup>2</sup>   24 m
10 m	-	491 m <sup>2</sup>   25 m

Reference: 1040200

# Technical appendix

## Detection areas

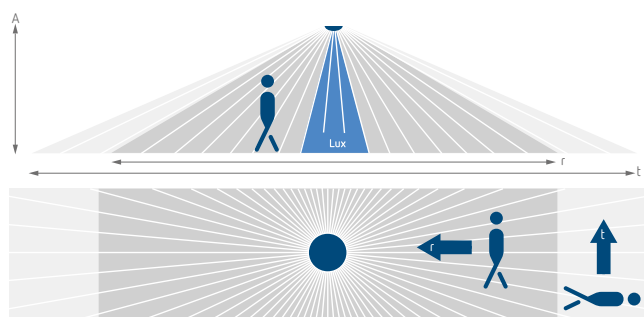
### LUXA 103 S360-12



Mounting height (A)	Sitting (S)	Diagonally (T)	Head on to (R)
2 m	13 m <sup>2</sup>   4 m	78 m <sup>2</sup>   10 m	28 m <sup>2</sup>   6 m
2,5 m	20 m <sup>2</sup>   5 m	113 m <sup>2</sup>   12 m	28 m <sup>2</sup>   6 m
3 m	20 m <sup>2</sup>   5 m	78 m <sup>2</sup>   10 m	28 m <sup>2</sup>   6 m

Reference: 1030052, 1030053, 1030062, 1030063, 1039052, 4800355

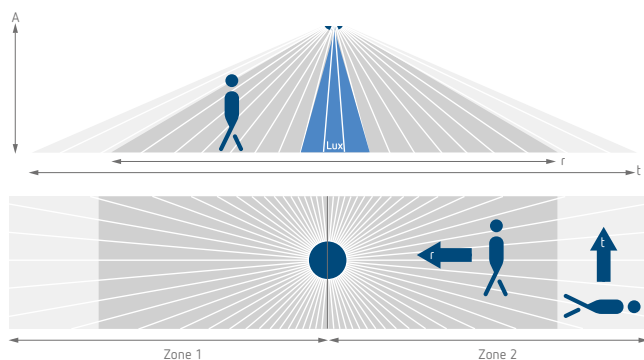
### LUXA 103 S360-28



Mounting height (A)	Diagonally (T)	Head on to (R)
2,5 m	140 m <sup>2</sup>   28 m x 5 m	70 m <sup>2</sup>   14 m x 5 m
3 m	140 m <sup>2</sup>   28 m x 5 m	70 m <sup>2</sup>   14 m x 5 m
3,5 m	104 m <sup>2</sup>   26 m x 4 m	60 m <sup>2</sup>   12 m x 5 m

Reference: 1030072, 1030082, 1039072

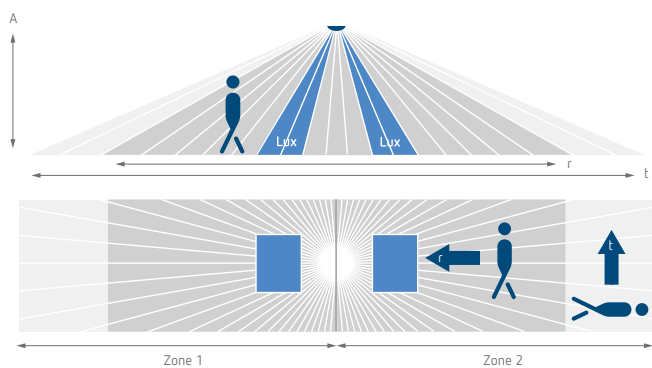
### thePassa P



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

Reference: 2010300, 2010330

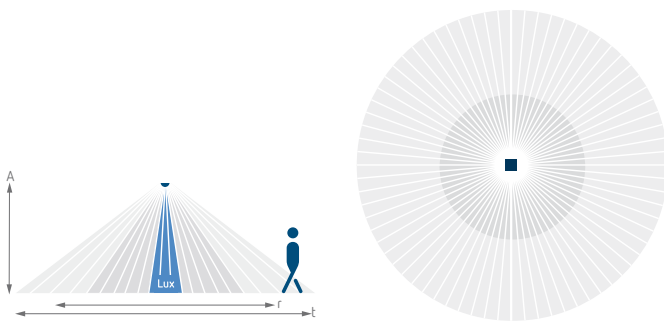
### thePassa P KNX/DALI



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

Reference: 2010340, 2010390, 2019300

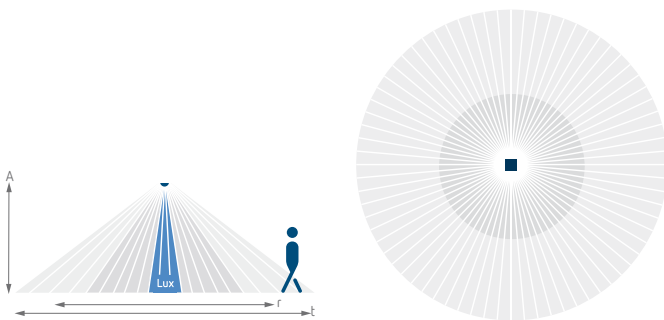
### theMova S



Mounting height (A)	Head on to (R)	Diagonally (t)
2 m	5 m <sup>2</sup>   2,5 m	38 m <sup>2</sup>   7 m
2,5 m	7 m <sup>2</sup>   3 m	38 m <sup>2</sup>   7 m
3 m	13 m <sup>2</sup>   4 m	50 m <sup>2</sup>   8 m
3,5 m	13 m <sup>2</sup>   4 m	50 m <sup>2</sup>   8 m
4 m	13 m <sup>2</sup>   4 m	64 m <sup>2</sup>   9 m

Reference: 1030540, 1030545, 1030550, 1030551, 1030552, 1030555, 1030556, 1030557, 1030560, 1030565, 1030570, 1060200

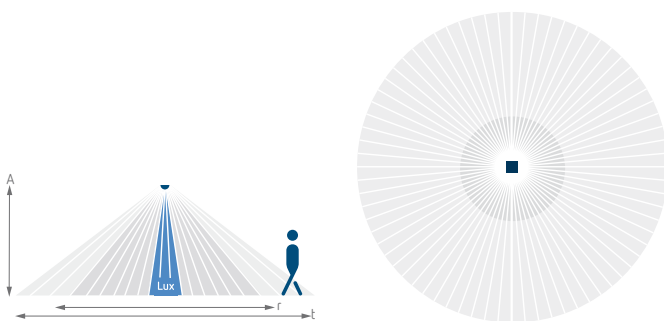
### thePiccola S



Mounting height (A)	Head on to (R)	Diagonally (t)
2,5 m	7 m <sup>2</sup>   3 m	38 m <sup>2</sup>   7 m

Reference: 1060200

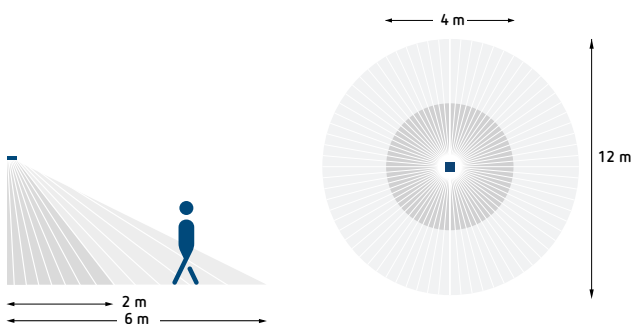
### theMova P



Mounting height (A)	Head on to (R)	Diagonally (t)
2 m	28 m <sup>2</sup>   6 m	380 m <sup>2</sup>   22 m
2,5 m	38 m <sup>2</sup>   7 m	415 m <sup>2</sup>   23 m
3 m	50 m <sup>2</sup>   8 m	452 m <sup>2</sup>   24 m
3,5 m	50 m <sup>2</sup>   8 m	452 m <sup>2</sup>   24 m
6 m	50 m <sup>2</sup>   8 m	452 m <sup>2</sup>   24 m
10 m	50 m <sup>2</sup>   8 m	491 m <sup>2</sup>   25 m

Reference: 1030600

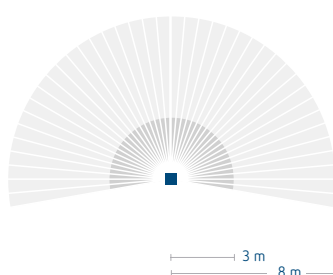
### LUXA 103-100 UA



Mounting height (A)	Diagonally (t)	Head on to (R)
2,5 m	12 m	4 m

Reference: 1030045

### LUXA 103-200



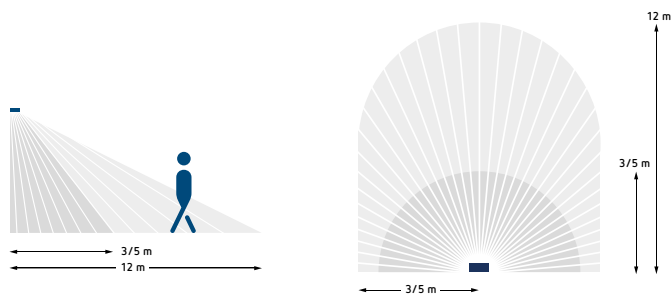
Mounting height (A)	Diagonally (t)	Head on to (R)
2 m	8 m	3,5 m

Reference: 1030031

# Technical appendix

## Detection areas

### theLuxa E/R



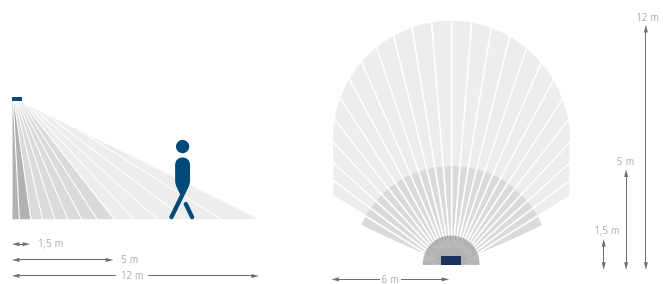
Mounting height	Diagonally	Head on to
2,5 m	12 m	5 m

Reference: 1010200, 1010201

Mounting height	Diagonally	Head on to
2,5 m	12 m	3 m

Reference: 1010205, 1010206

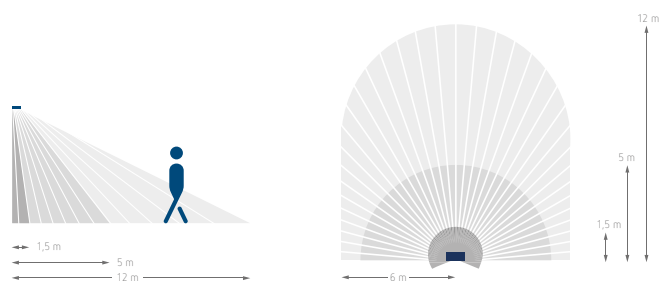
### theLuxa S150



Mounting height	Diagonally	Head on to
2 m	9 m	3 m
2,5 m	12 m	5 m
3 m	12 m	5 m
3,5 m	12 m	5 m
4 m	9 m	3 m

Reference: 1010500, 1010501

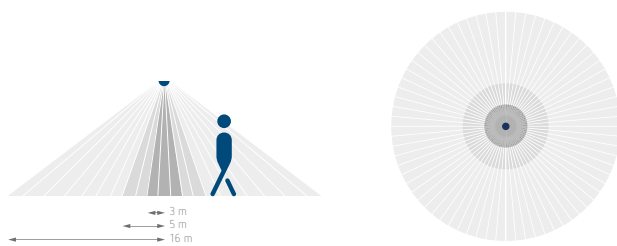
### theLuxa S180



Mounting height	Diagonally	Head on to
2 m	9 m	3 m
2,5 m	12 m	5 m
3 m	12 m	5 m
3,5 m	12 m	5 m
4 m	9 m	3 m

Reference: 1010505, 1010506

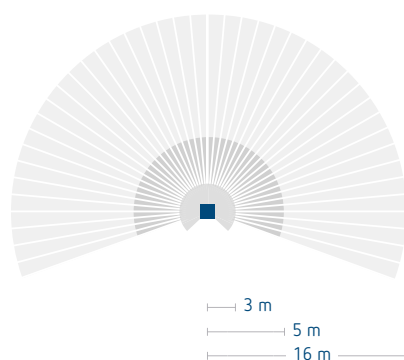
### theLuxa S360



Mounting height	Diagonally	Head on to
2 m	15 m	4 m
2,5 m	16 m	5 m
3 m	16 m	5 m
3,5 m	10 m	5 m
4 m	8 m	3 m

Reference: 1010510, 1010511

### theLuxa P220

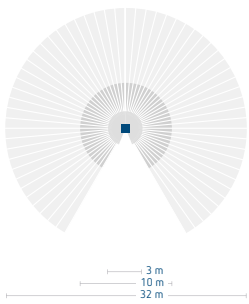


Mounting height	Diagonally	Head on to
2 m	12 m	4 m
2,5 m	16 m	5 m
3 m	16 m	5 m
3,5 m	16 m	5 m
4 m	12 m	4 m

Reference: 1010605, 1010606



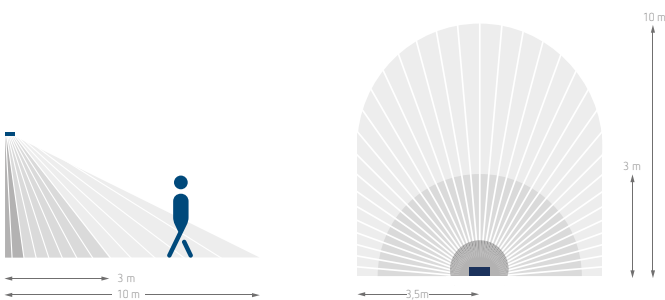
### theLuxa P300



Mounting height (A)	Diagonally (t)	Head on to (R)
2 m	12 m	4 m
2,5 m	16 m	5 m
3 m	16 m	5 m
3,5 m	16 m	5 m
4 m	12 m	4 m

Reference: 1010610, 1010611, 1019610, 1019611

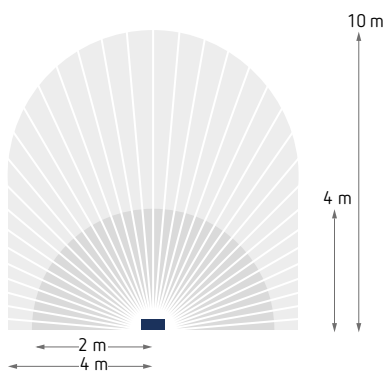
### theLeda S



Mounting height	Diagonally	Head on to
2,5 m	10 m	3 m

Reference: 1020800, 1020801, 1020802, 1020803

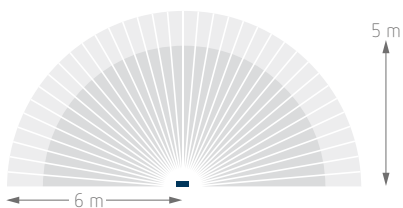
### theLeda D wall lights



Mounting height	Diagonally	Head on to
2,2 m	10 m	4 m

Reference: 1020901, 1020902, 1020903, 1020904

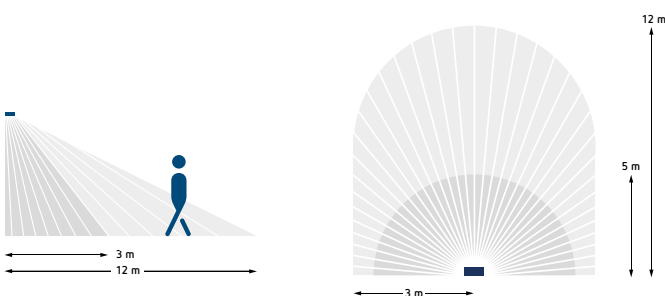
### theLeda D B path lights



Diagonally	Head on to
6 m	5 m

Reference: 1020905, 1020906, 1020907

### theLeda B motion detector modules



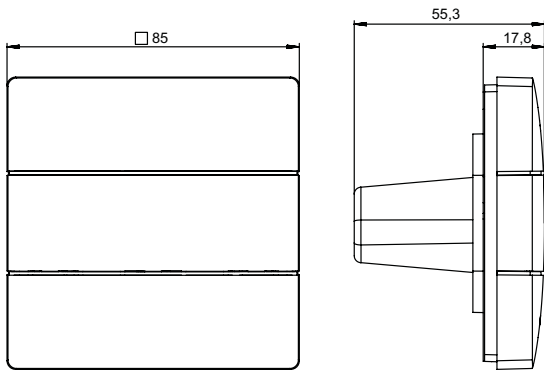
Mounting height	Diagonally	Head on to
2,5 m	12 m	3 m

Reference: 9070760, 9070761, 9070800, 9070801

# Technical appendix

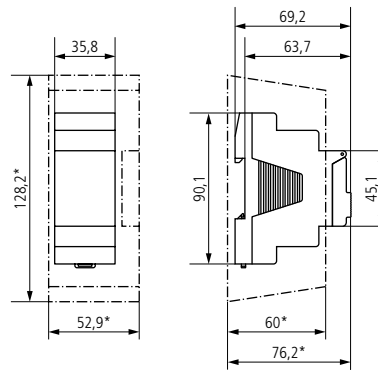
## Scale drawings

### LUXORliving IP-RF



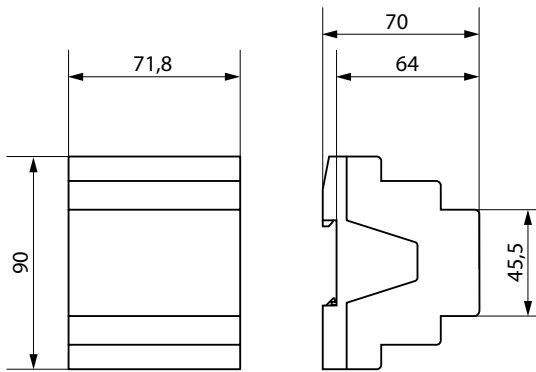
Reference: 4800000

### Products 2 modules



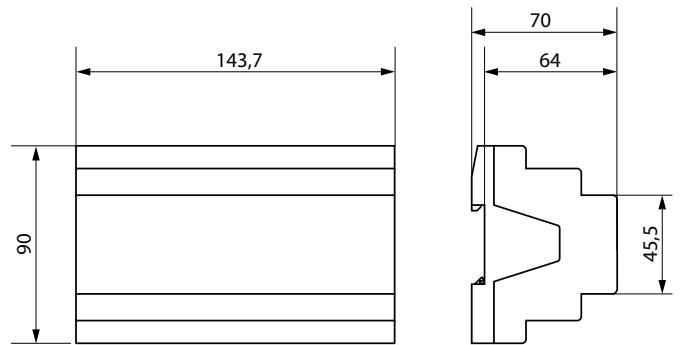
Reference: 1100900, 1100910, 1110130, 1110230, 1210130, 1210230, 1700130, 1704100, 1710330, 1714100, 1720130, 1720330, 1724100, 1740130, 4800495, 6100110, 6100130, 6104100, 6110130, 6110330, 6114100, 6120130, 6124100, 6220130, 6224100

### Products 4 modules



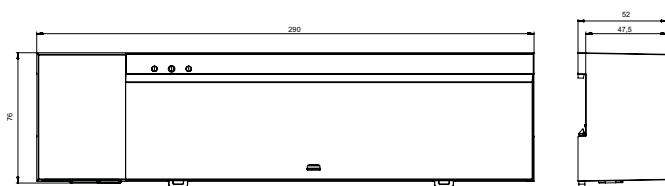
Reference: 4800420, 4800425, 4800430, 4800440, 4800450, 4800451, 4800470, 4800475, 4800990, 4930210, 4930215, 4930220, 4930223, 4930225, 4930228, 4930230, 4930235, 4930240, 4930245, 4930250, 4930255, 4930260, 4930265, 4930270, 4930275, 4940200, 4940210, 4940223, 4940230, 4940240, 4940250, 4940260, 4940270, 4940280, 4940310

### Products 8 modules



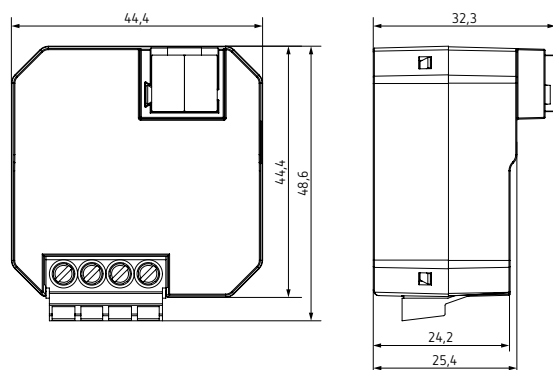
Reference: 4800429, 4800455, 4940205, 4940215, 4940225, 4940235, 4940245, 4940255, 4940265, 4940275, 4940285

### HMT S KNX



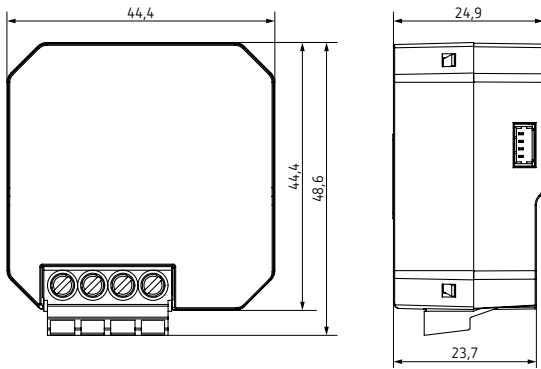
Reference: 4800441, 4900373, 4900374

### Flush-mounted actuators



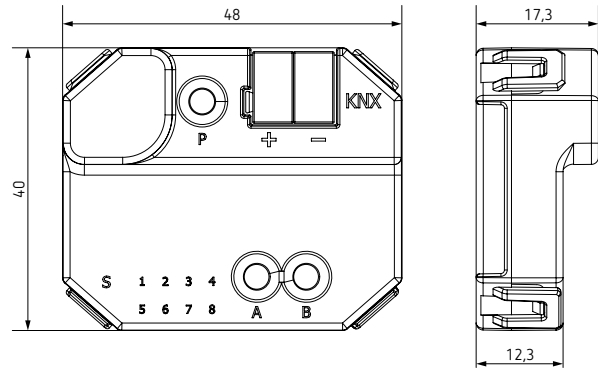
Reference: 4800520, 4800540, 4800542, 4800550, 4800570, 4942520, 4942540, 4942542, 4942550, 4942570

Flush-mounted RF actuators



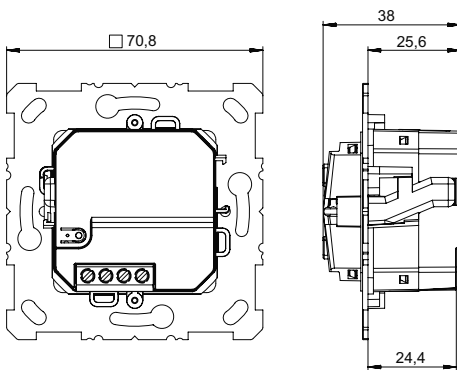
Reference: 4800614, 4800620, 4800640, 4800642, 4800650, 4800670, 4941621, 4941641, 4941642, 4941651, 4941671

Media coupler



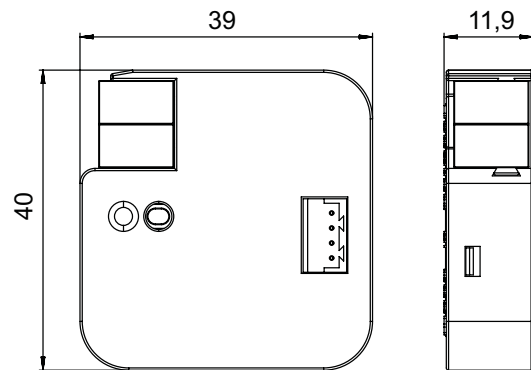
Reference: 4800868, 9070868

Push-button/actuator combinations



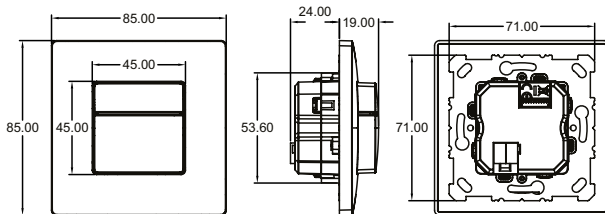
Reference: 4800615, 4800625, 4800655, 4800675, 4941625, 4941655, 4941675, 4961615

Split Unit Gateway



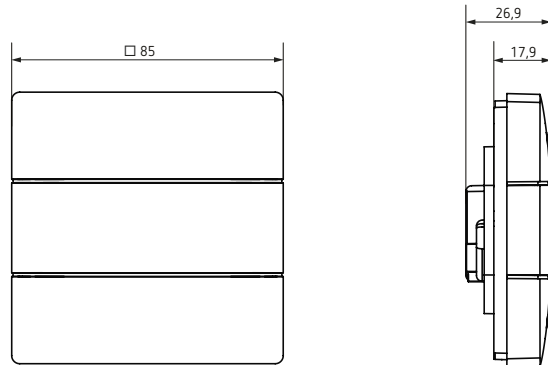
Reference: 4800320, 4940320

theMura KNX/LUXORliving



Reference: 2069650, 2069655, 4800350

iON

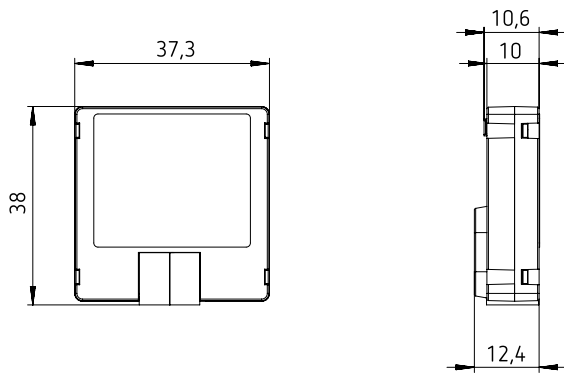


Reference: 4800412, 4800414, 4800418, 4801412, 4801414, 4801418, 4802412, 4802414, 4802418, 4969232, 4969234, 4969238, 4969242, 4969244, 4969248, 4969252, 4969254, 4969268

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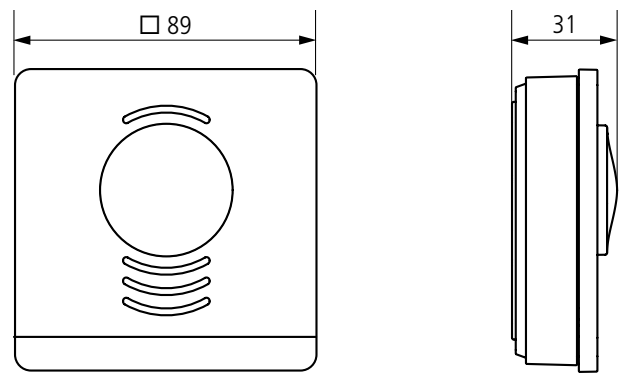
## Scale drawings

### TA S KNX



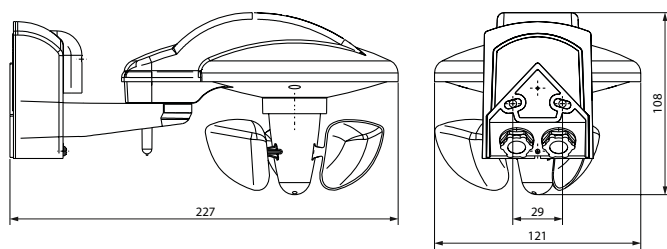
Reference: 4800402, 4800404, 4800408, 4969222, 4969224, 4969226, 4969228

### RAMSES 718 P/AMUN 716 S



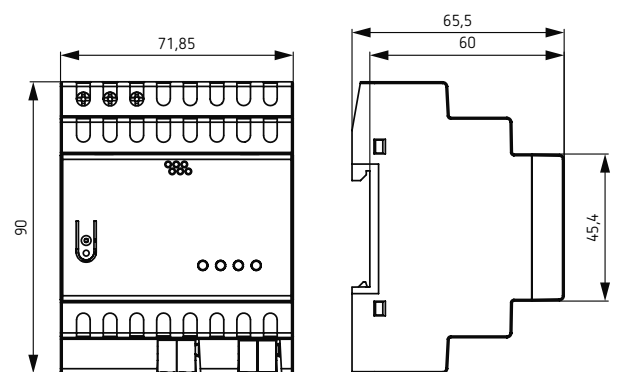
Reference: 4800480, 7169230, 7189210

### Meteodata



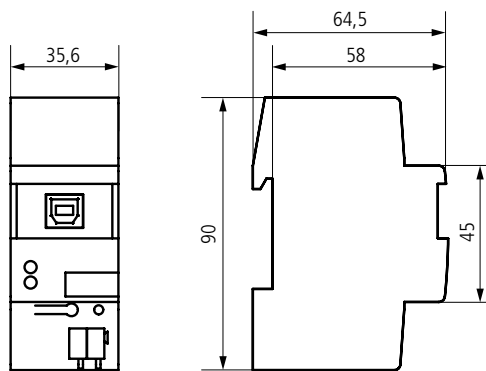
Reference: 1409201, 1409204, 1409205, 1409207, 1409208, 4800490, 4800491

### PST KNX



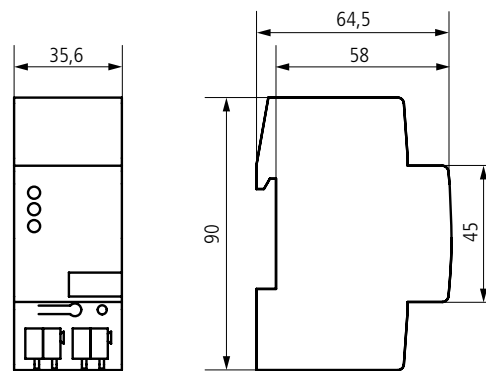
Reference: 9070956, 9070957, 9070958

### Interface USB KNX



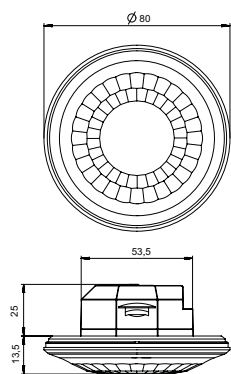
Reference: 9070397

### KNX line coupler



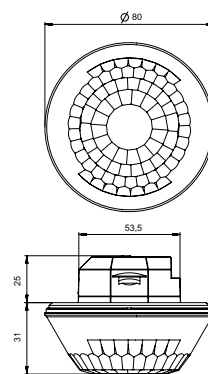
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### LUXA 103 S360-12 KNX UP



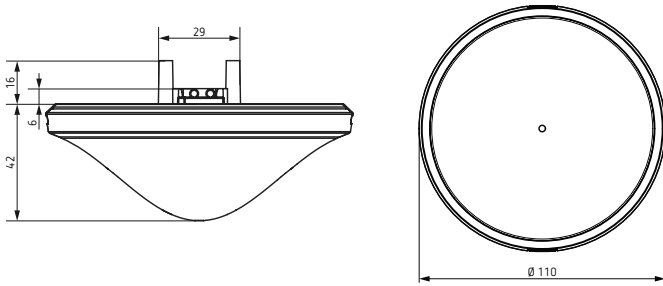
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### LUXA 103 S360-28 KNX UP



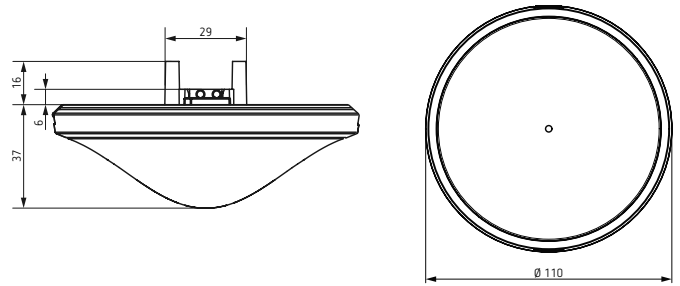
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thePrema P KNX



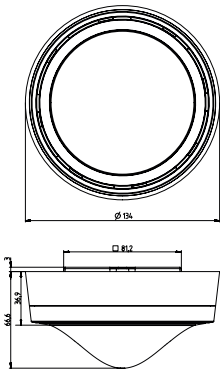
Reference: 2079000, 2079001, 2079002

thePrema S KNX



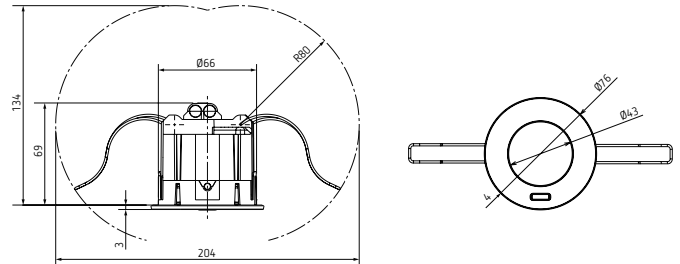
Reference: 2079500, 2079501, 2079502

thePrema P360 KNX AP Multi



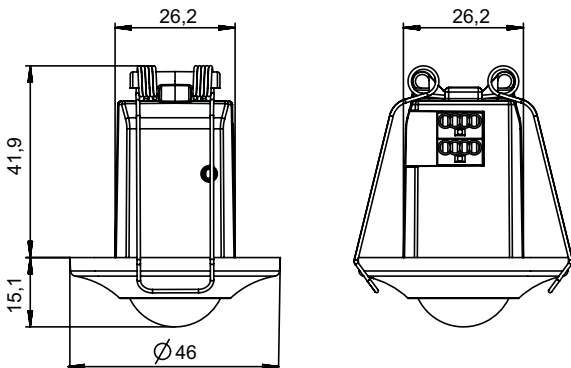
Reference: 2079900

PlanoSpot



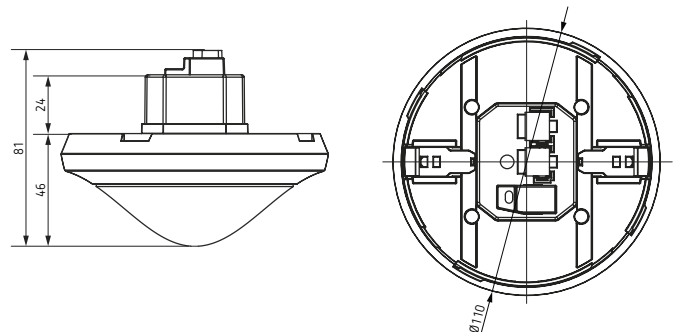
Reference: 2030190, 2039100

thePiccola KNX



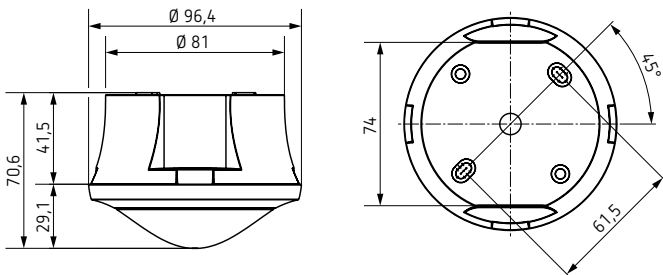
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theRonda/thePassa/theMova KNX UP



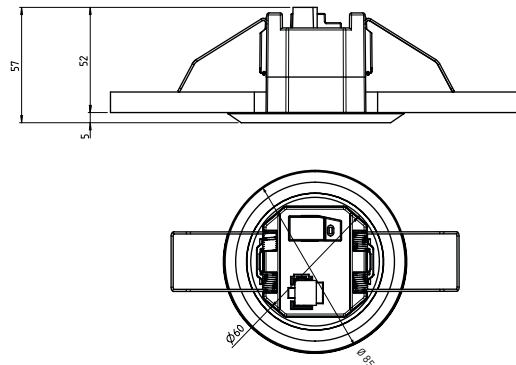
Reference: 2019300, 2089000, 2089520

theMova/theRonda AP



Reference: 1030550, 1030551, 1030552, 1030555, 1030556, 1030557, 2080550, 2080551, 2080552, 2080555, 2080556, 2080557, 2089550, 2089551, 2089552

theMova/theRonda KNX FLAT EN

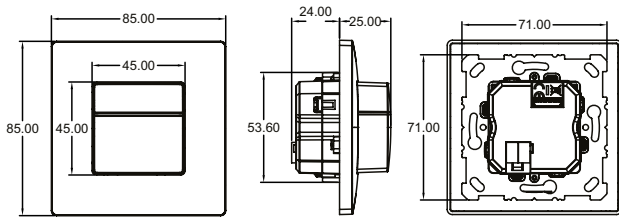


Reference: 2089560

# Technical appendix

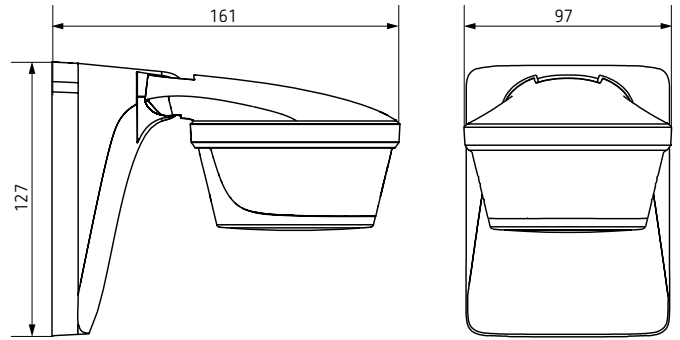
## Scale drawings

### theMura 2.20 KNX



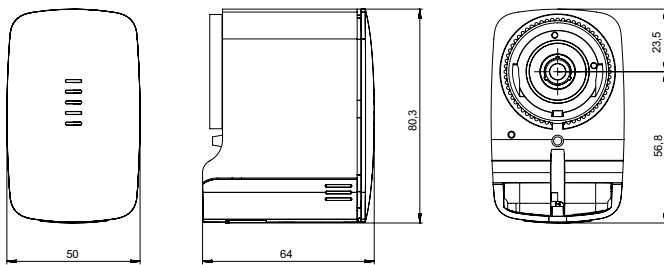
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### theLuxa P



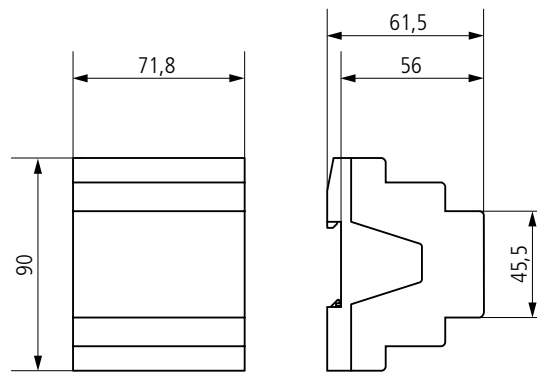
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### CHEOPS S KNX



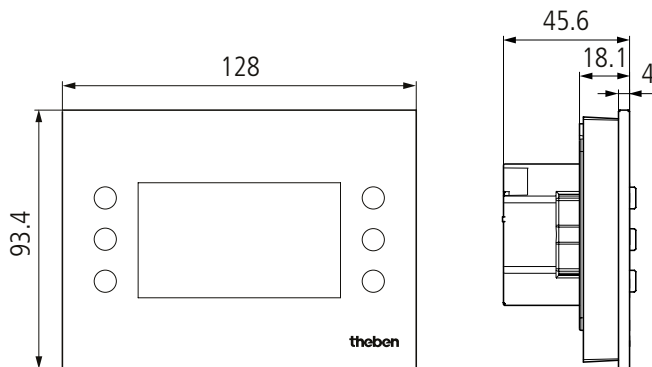
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### Products 4 modules



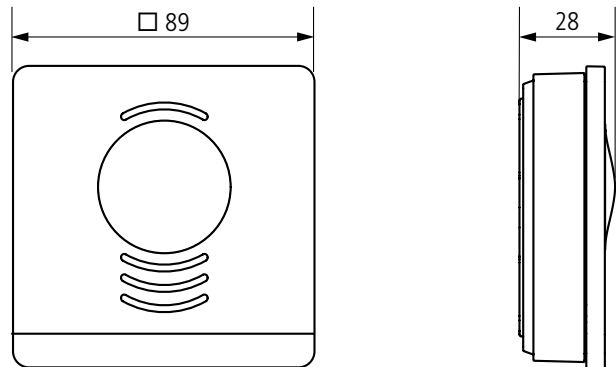
Reference: 4920200, 4920210

### VARIA 816 S KNX



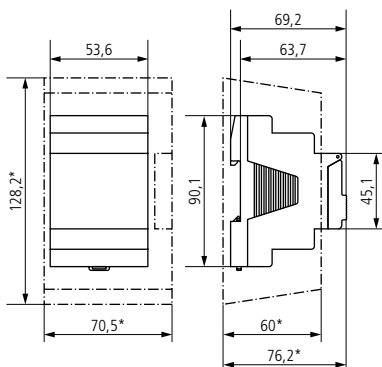
Reference: 8269210

### RAMSES 718 P/AMUN 716 SR



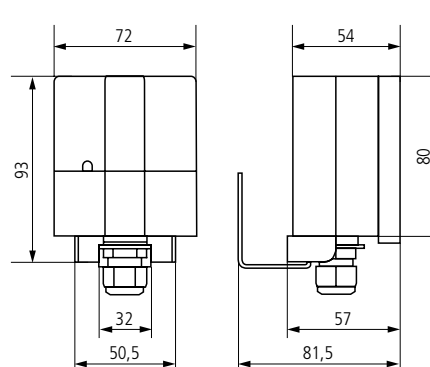
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### Products 3 modules



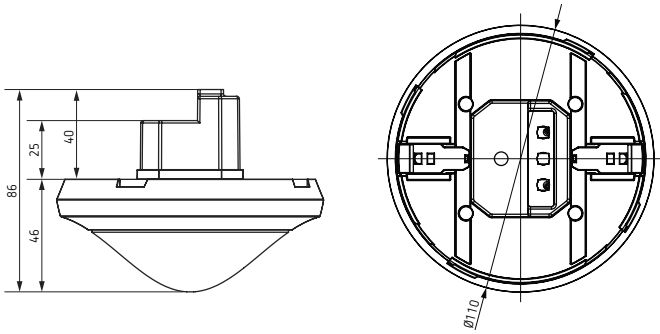
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### RC-DCF/LUNA KNX antenna



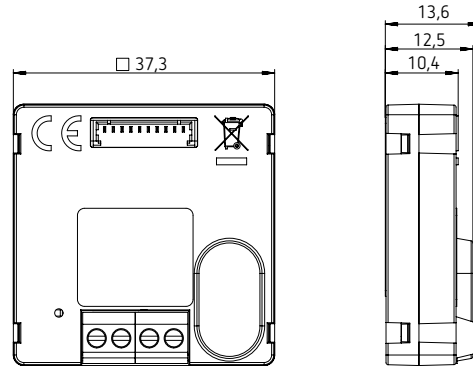
Reference: 1319201, 1339200, 9070410

theRonda P UP



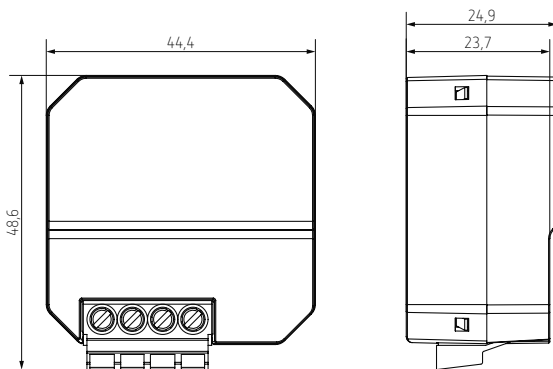
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TA 4 S DALI-2



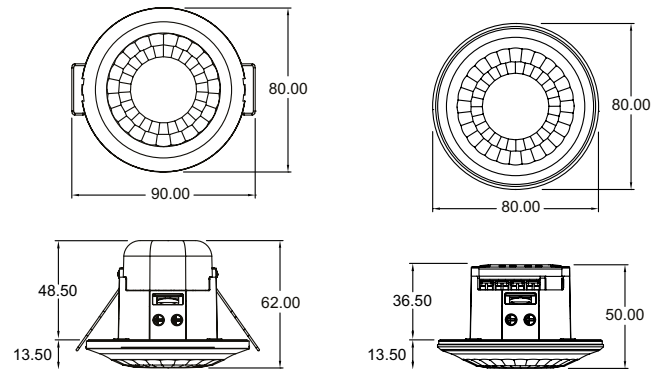
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SU 1 DALI-2



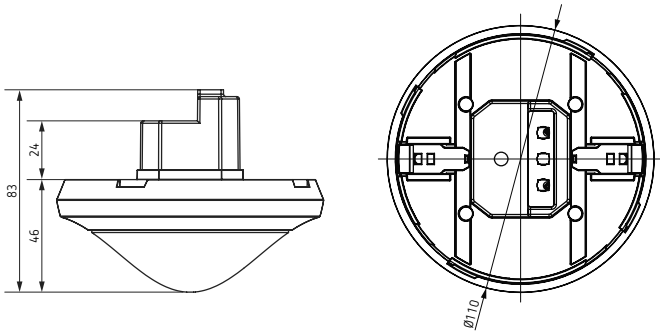
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LUXA 103 S360-10x-12 DE-UP



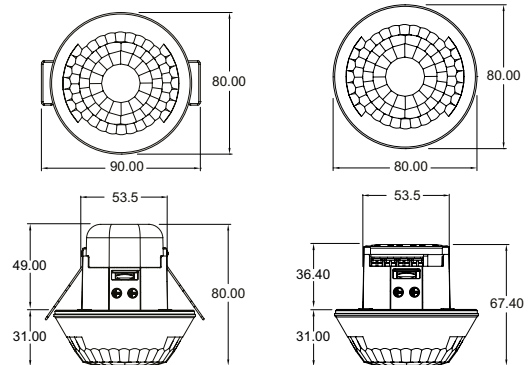
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theRonda/thePassa/theMova UP



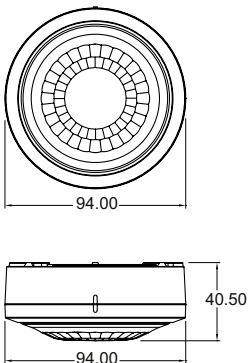
Reference: 1030600, 2010300, 2010330, 2010340, 2010390, 2080020, 2080025, 2080030, 2080520, 2080525, 2080530

LUXA 103 S360-28 DE-UP



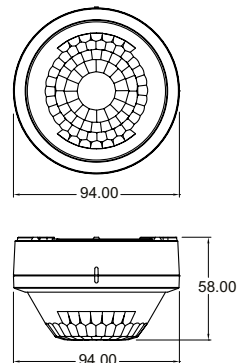
Reference: 1030072

LUXA 103 S360-10x-12 AP



Reference: 1030062, 1030063

LUXA 103 S360-100-28 AP



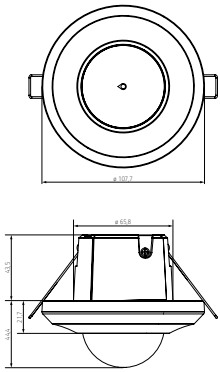
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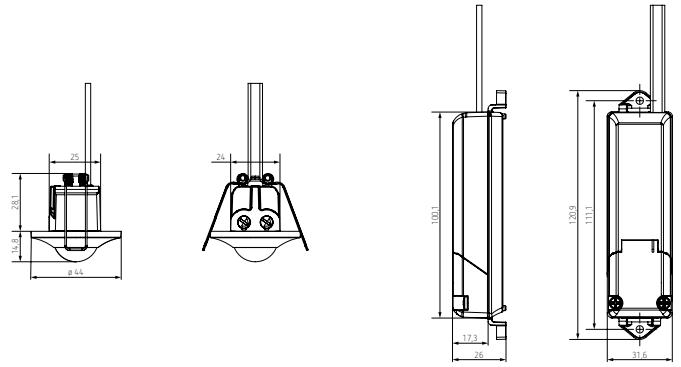
## Scale drawings

### LUXA 104 S360-200-24 DE-UP



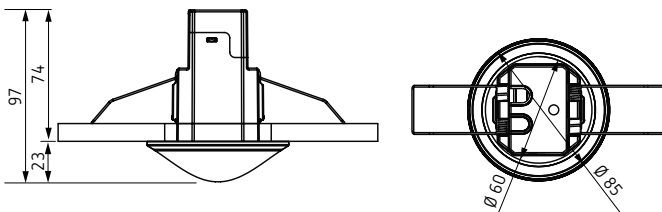
Reference: 1040200

### thePiccola



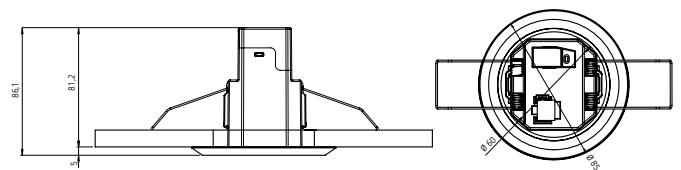
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### theMova/theRonda DE



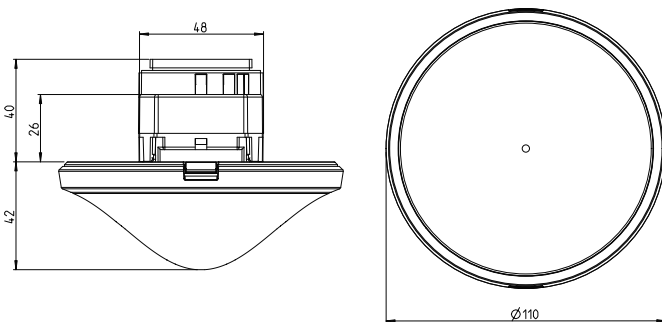
Reference: 1030560, 1030565, 2080560, 2080565

### theRonda/theMova FLAT DE



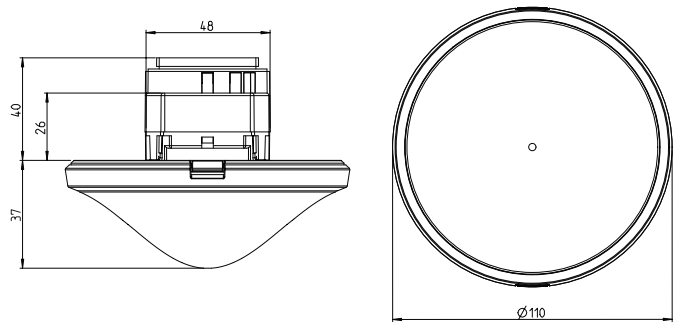
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### thePrema P



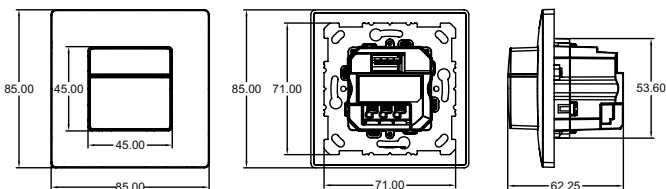
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### thePrema S



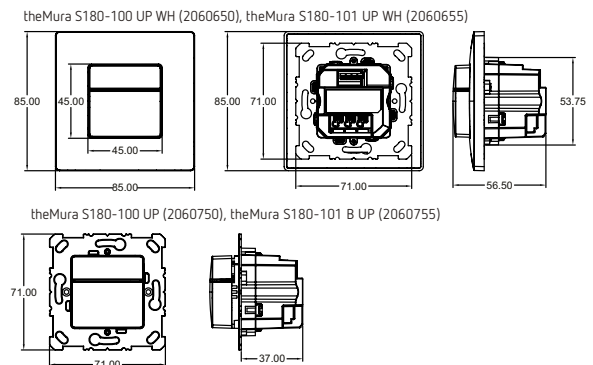
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### theMura 2.20



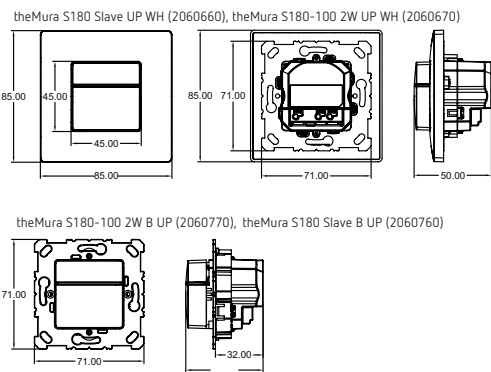
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### theMura S180 100/101



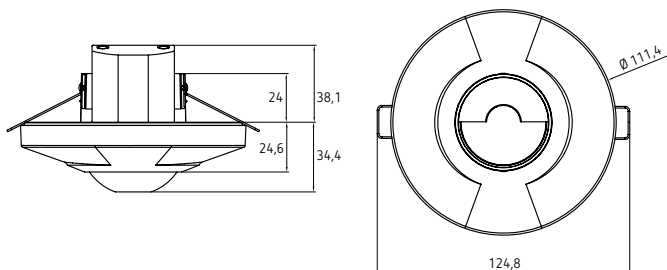
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theMura Slave / 2W



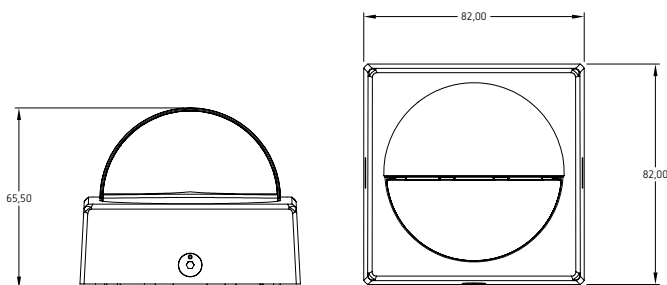
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LUXA 103-100 UA



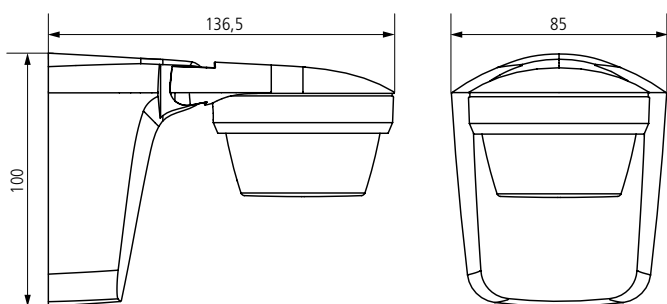
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theLuxa R



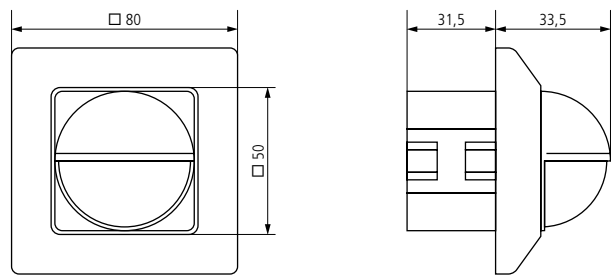
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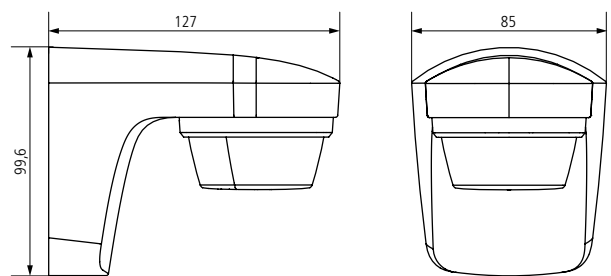
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LUXA 103-200



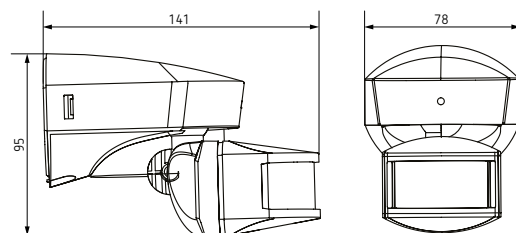
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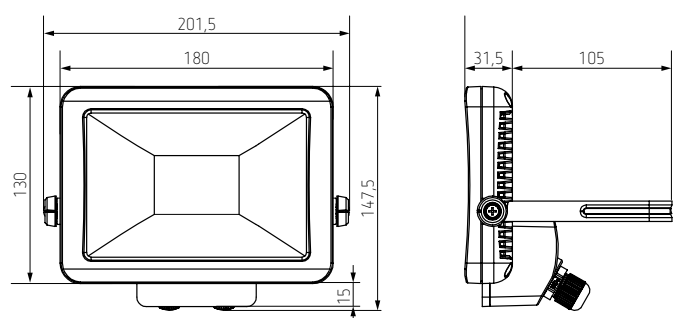
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theLuxa E180



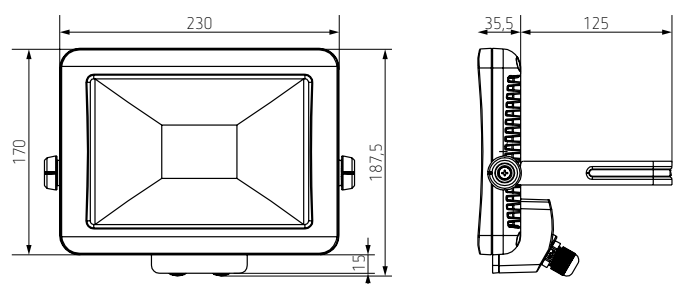
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theLeda B20L



Reference: 1020683, 1020684

theLeda B30L

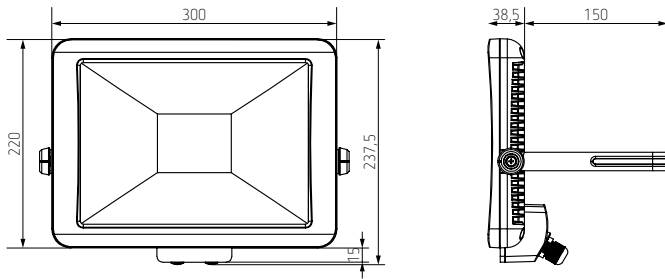


Reference: 1020685, 1020686

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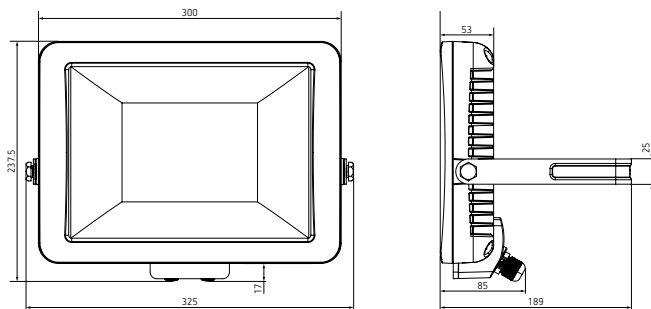
## Scale drawings

### theLeda B50L



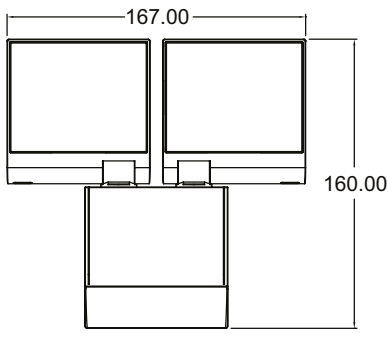
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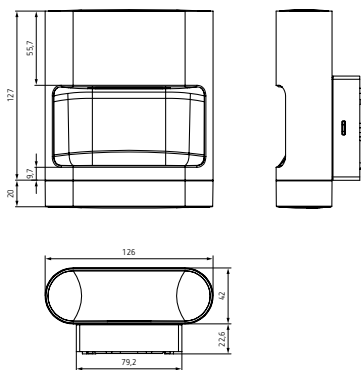
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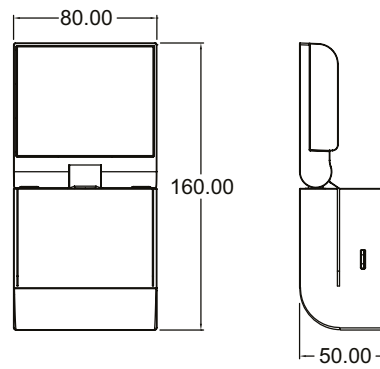
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### theLeda D SU



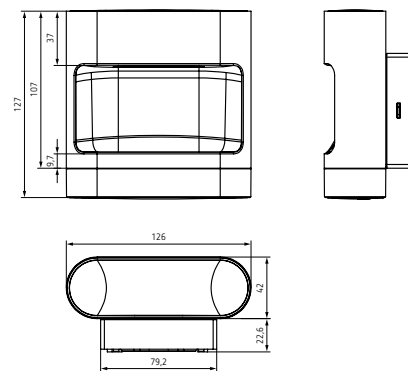
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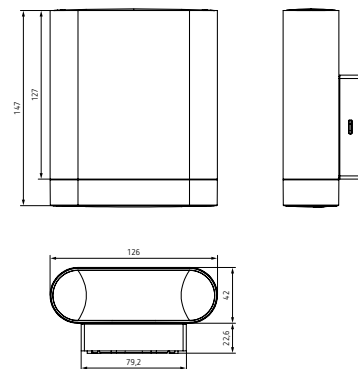
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### theLeda D S



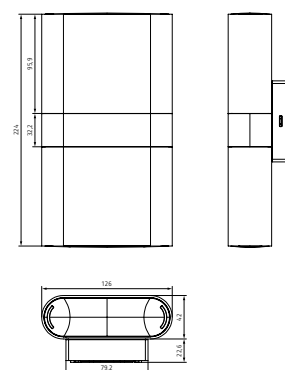
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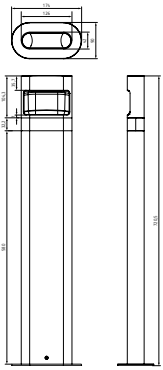
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### theLeda D UD



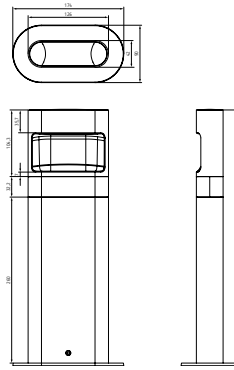
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theLeda D B plus



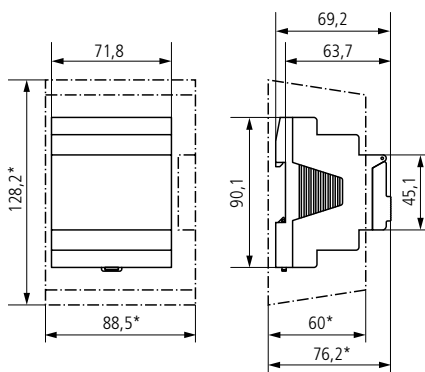
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theLeda D B



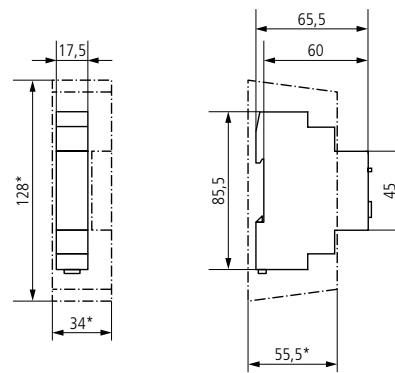
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Products 4 modules



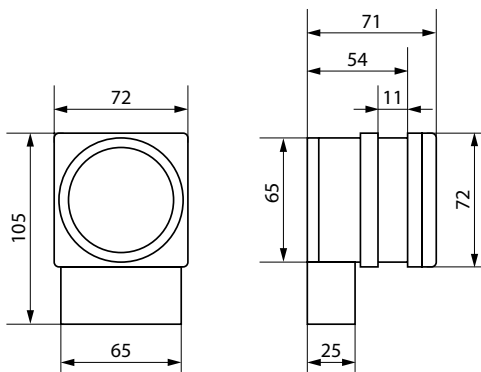
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Products 1 module



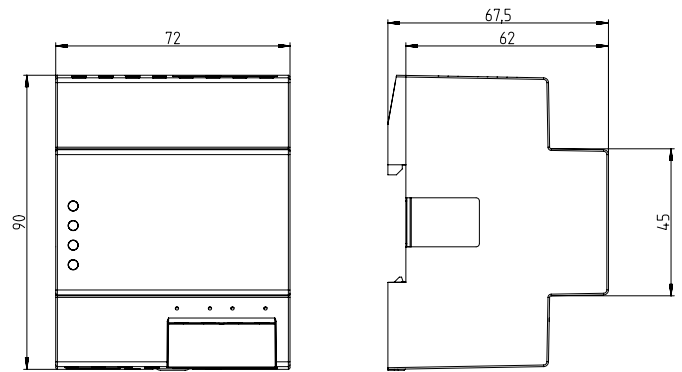
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TR 635/636 top2



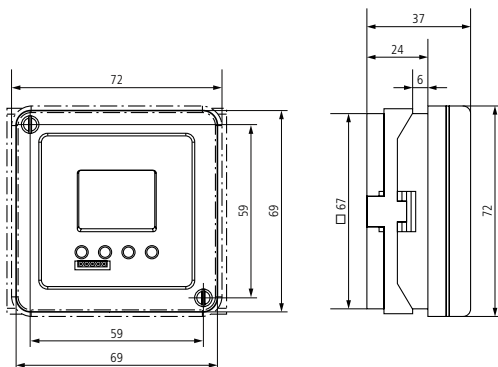
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TC 649



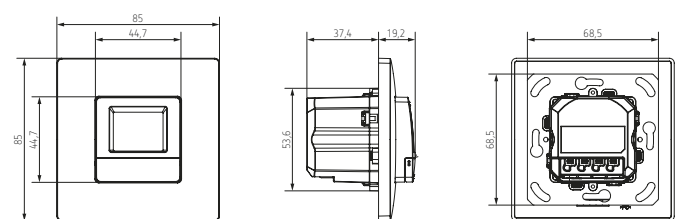
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TR 684 top2



Reference: 6840100

TR/SELEKTA top3 UP

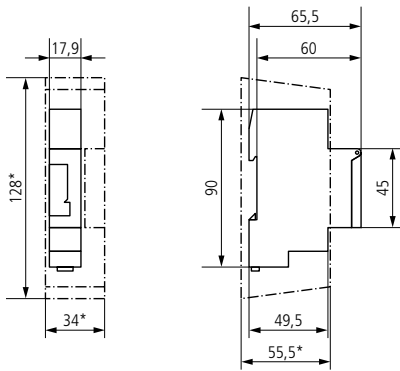


Reference: 0300130, 0700130

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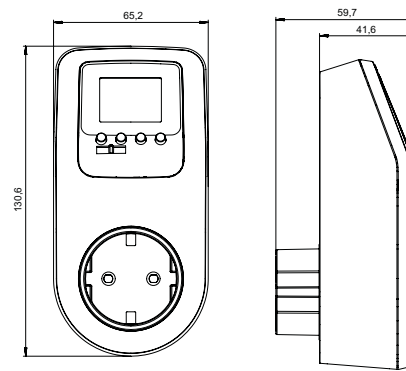
## Scale drawings

### Products 1 module



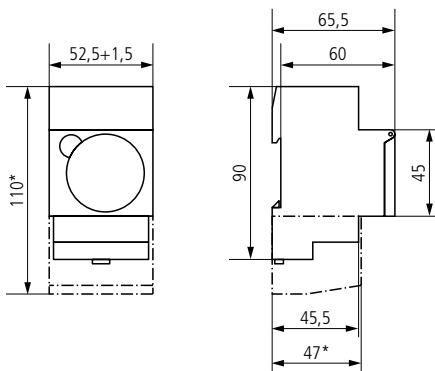
Reference: 1600001, 1800001, 1900001

### theben-eltimo top3



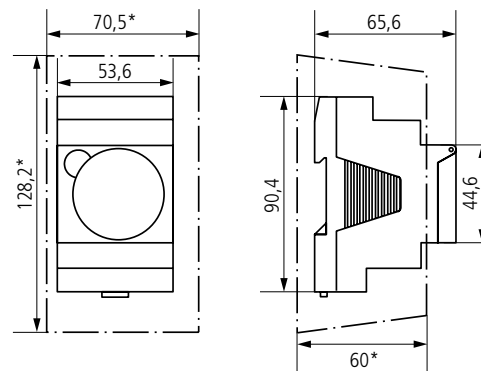
Reference: 0200130, 0200170

### Time switches analogue 3 modules



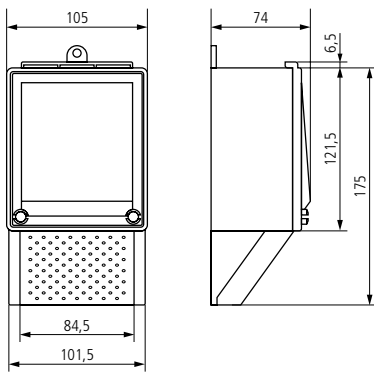
Reference: 1880033, 1880108

### Time switches analogue 3 modules DuoFix



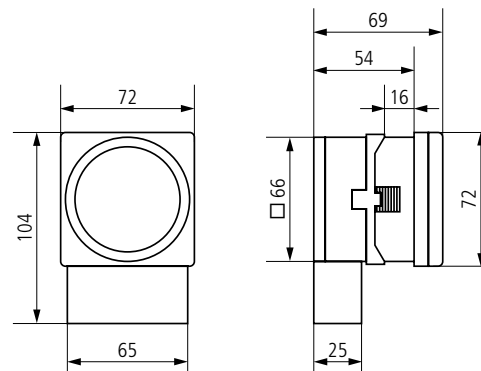
Reference: 1510011, 1610011, 1810011, 1814011, 1910011

### Analogue wall-mounted tariff time switches



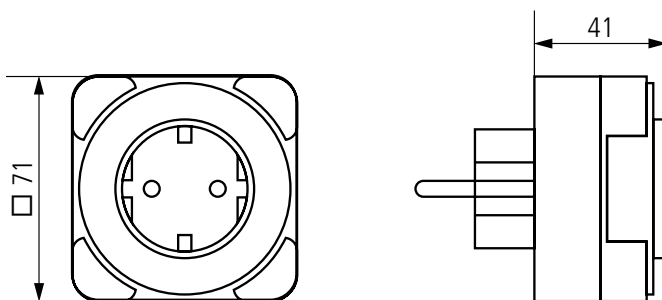
Reference: 2850033

### Time switches analogue wall mounting



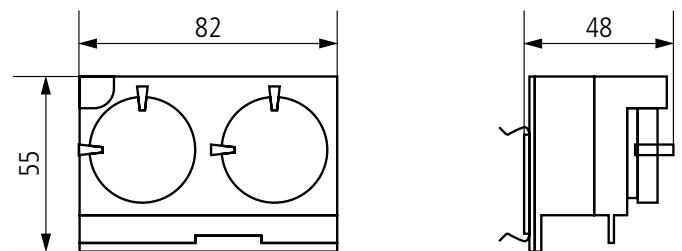
Reference: 1690801, 1790008, 1890108, 1890801, 1891801, 2690008, 2890008, 2890033

### theben-timer



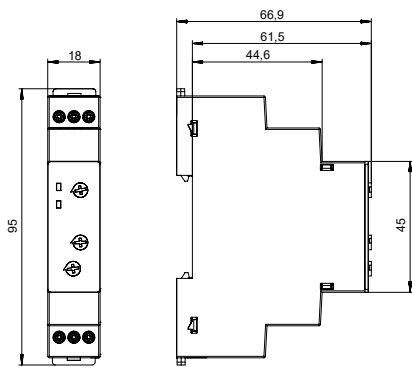
Reference: 0260030, 0260833, 0270930

### FRI 77 h-2/g-2



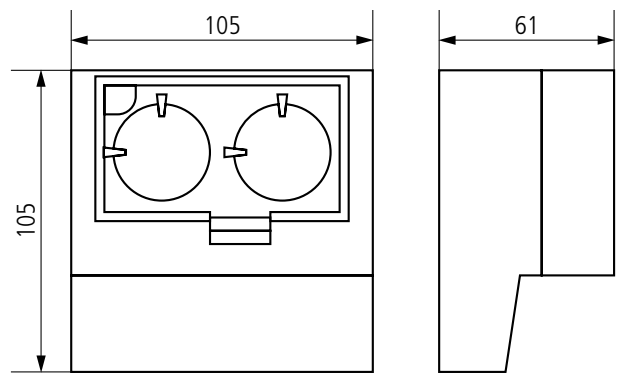
Reference: 0770802, 0770832

TM 345 MF



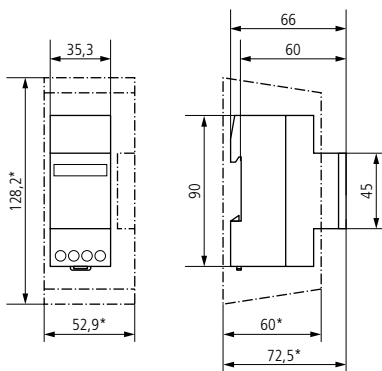
Reference: 3450733

FRI 77 h/g



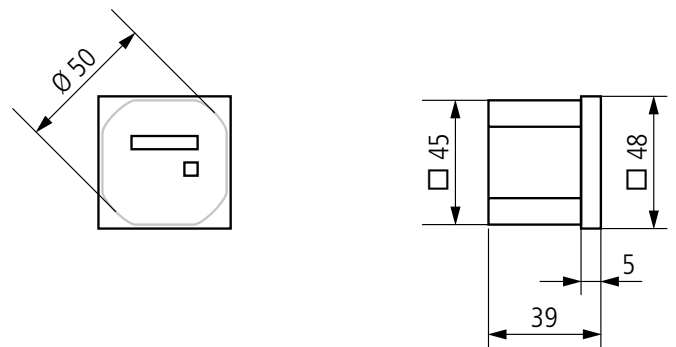
Reference: 0770033

BZ 145



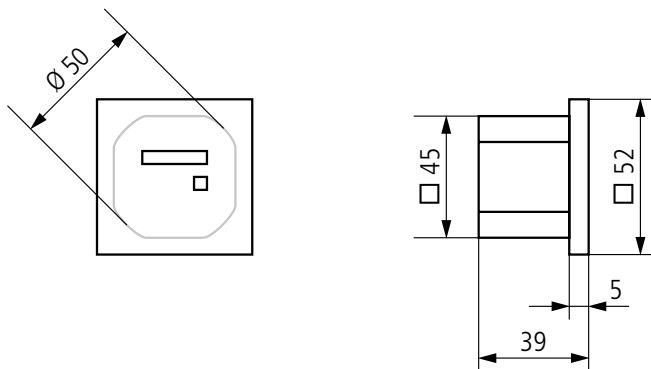
Reference: 1450000, 1459024, 1480000

BZ 142-1



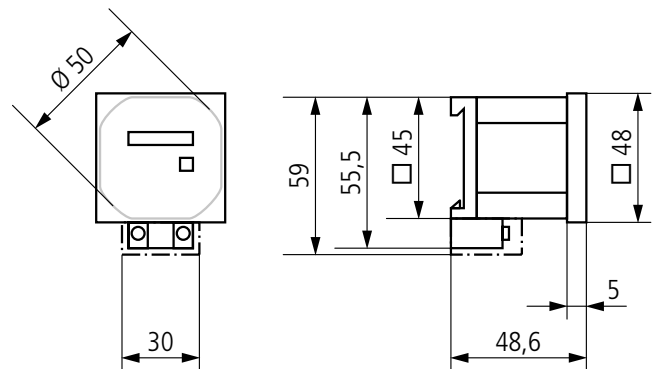
Reference: 1420621, 1420721, 1420821, 1424721

BZ 143-1



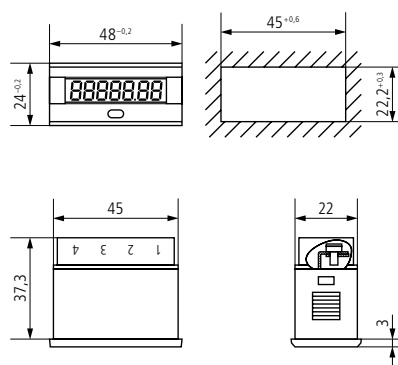
Reference: 1430721

BZZ 142-3



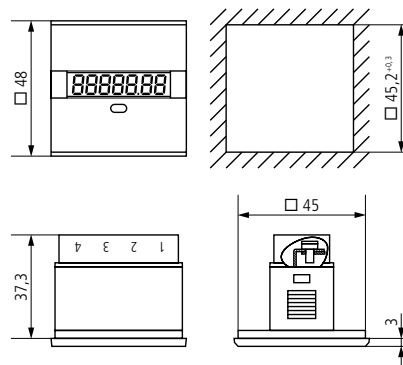
Reference: 1420723

BZ 146



Reference: 1460000

BZ 147

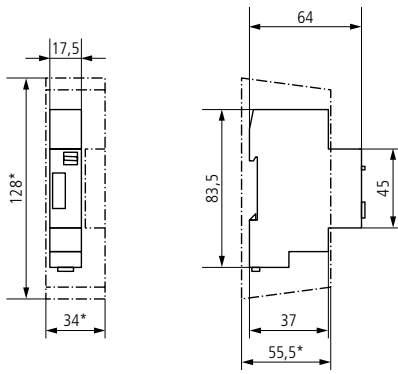


Reference: 1470000

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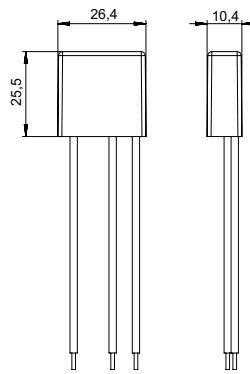
## Scale drawings

### Products 1 module



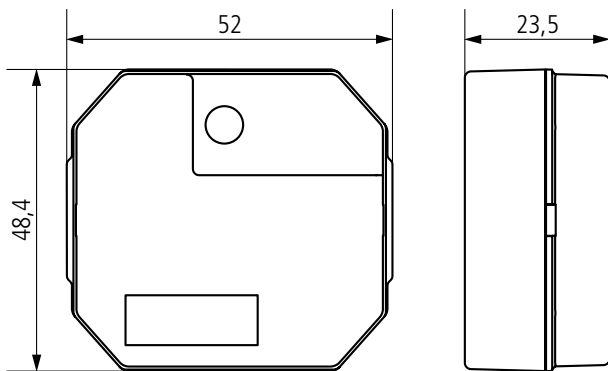
Reference: 0080002, 0090001

### DIMAX 540 plus B



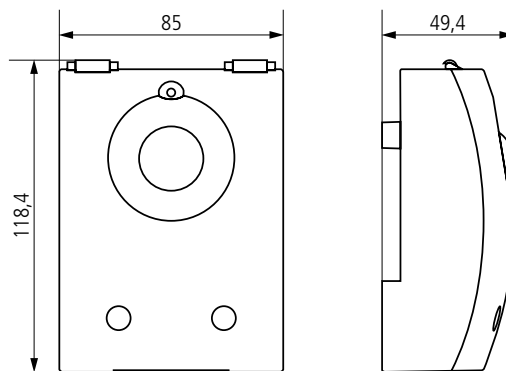
Reference: 5400130

### ELPA 041/047



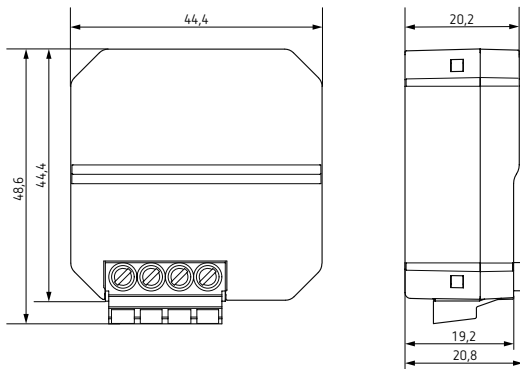
Reference: 0410002, 0470002

### LUNA star



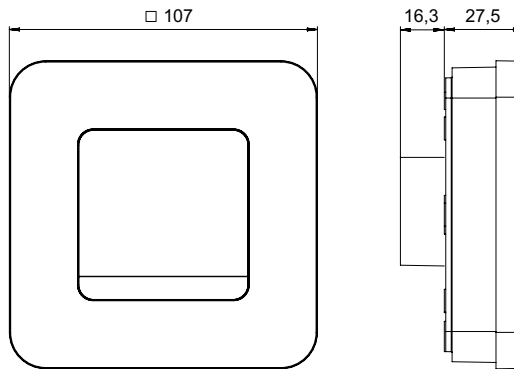
Reference: 1260901, 1270900

### DIMAX plus



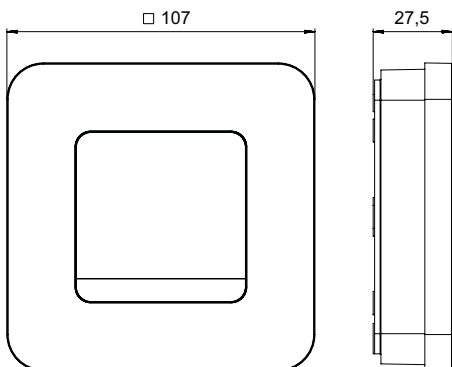
Reference: 5450130

### RAMSES top3 16 A



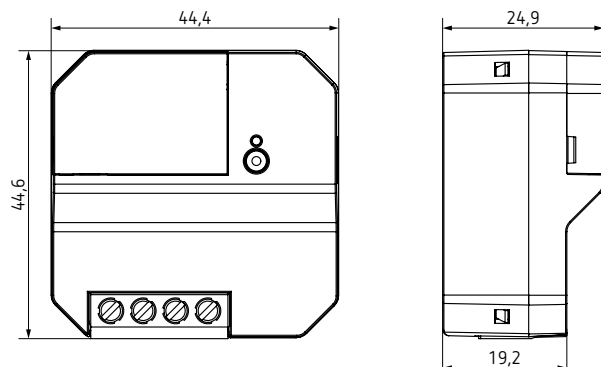
Reference: 8120210

### RAMSES top3



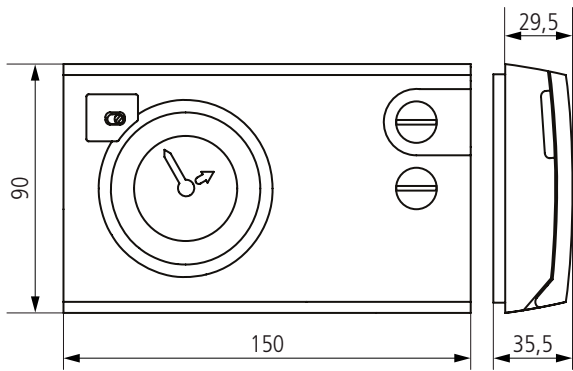
Reference: 8119200, 8120200, 8139201, 8139203

### RAMSES 814 BLE UP



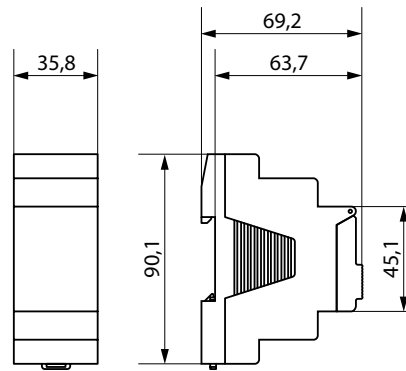
Reference: 8140150

RAMSES 72x/784



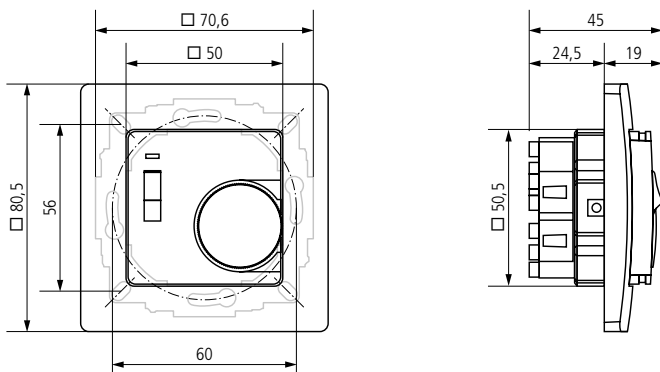
Reference: 7210030, 7220030, 7220801, 7250030, 7820030, 7840030, 7840801

RAMSES 366/1 top2



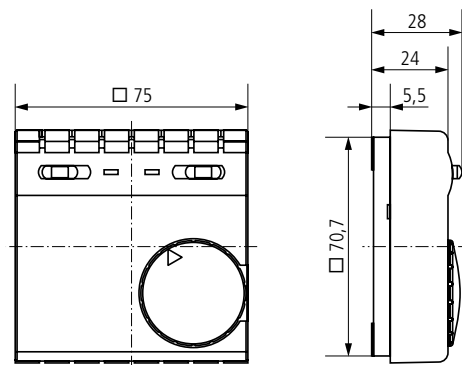
Reference: 3660100

RAMSES 74x



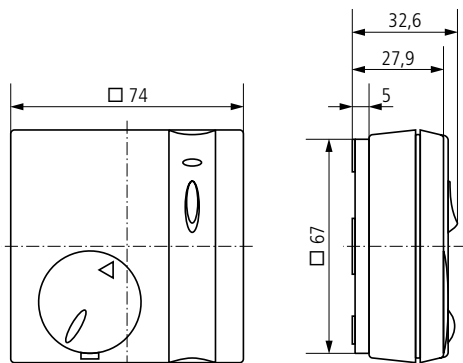
Reference: 7410130, 7460130, 7480130

RAMSES 70x



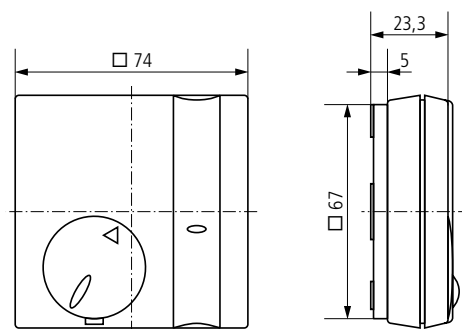
Reference: 7010001, 7030001, 7050001, 7060001, 7080001, 7090001

RAMSES 714 A



Reference: 7140016

RAMSES 714/SOTHIS 715



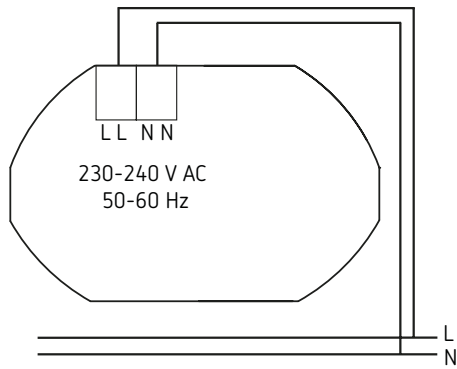
Reference: 7140002, 7150002



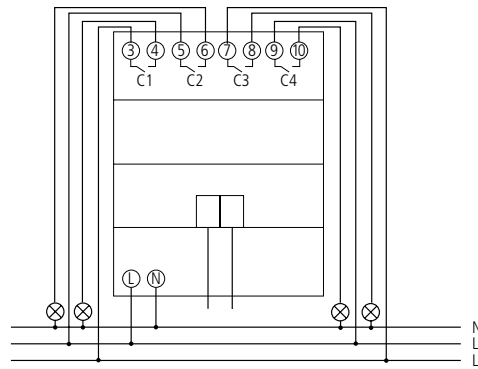
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## Connection diagrams

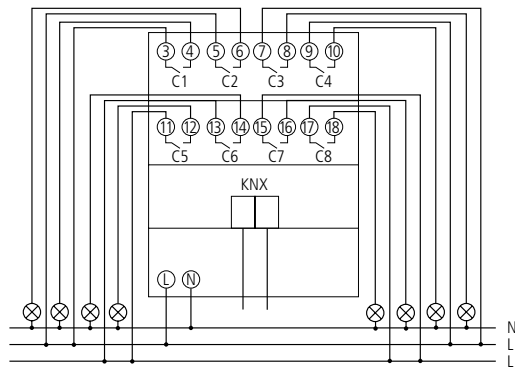
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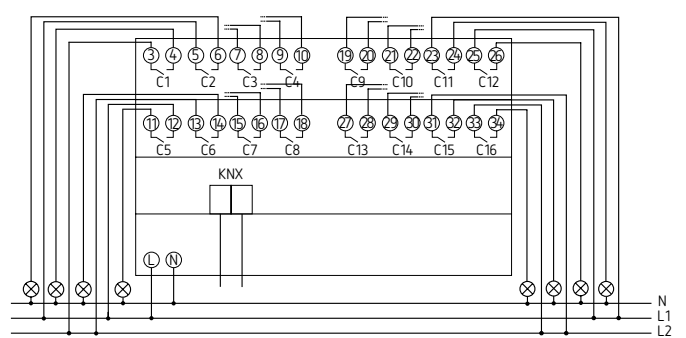
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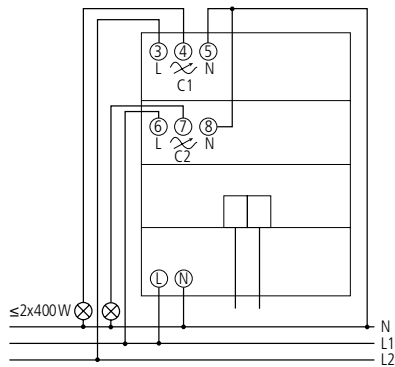
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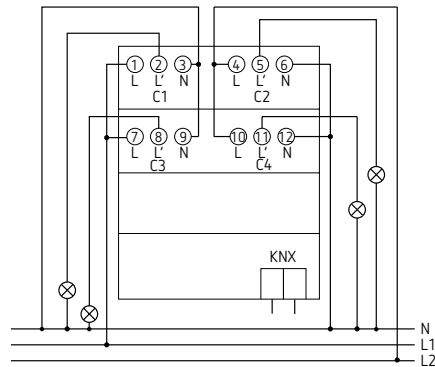
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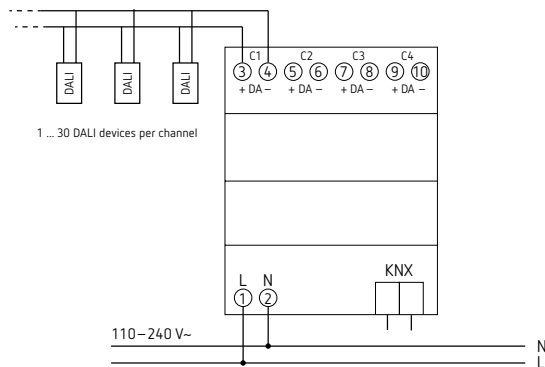
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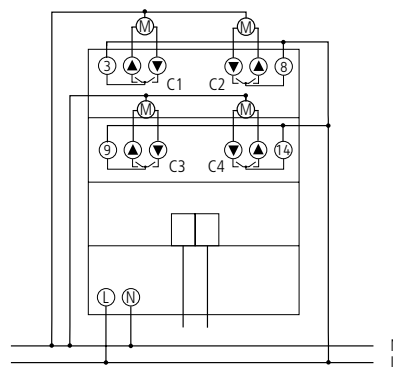
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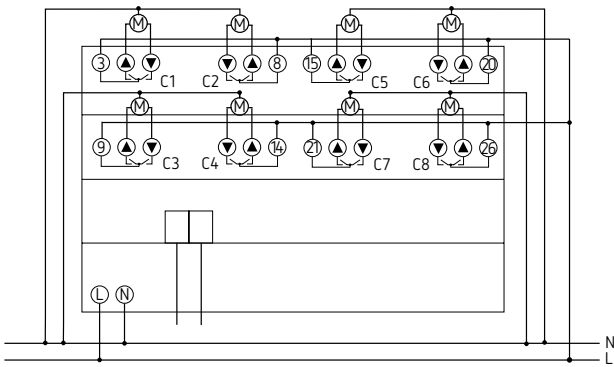
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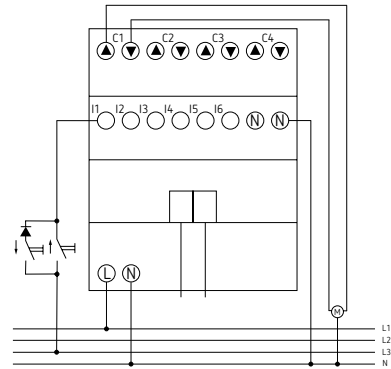
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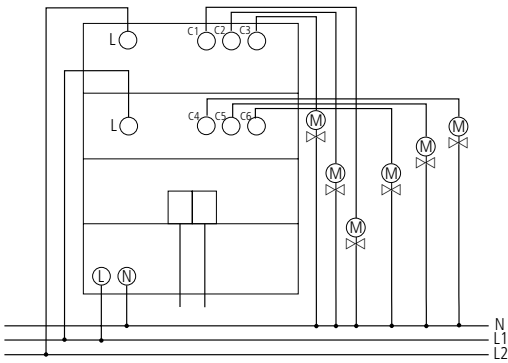
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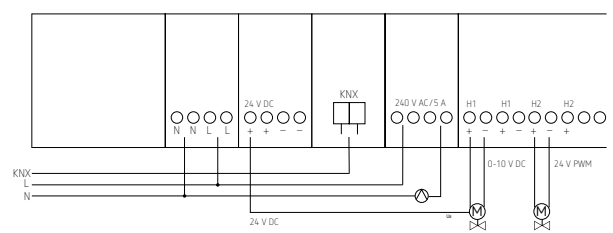
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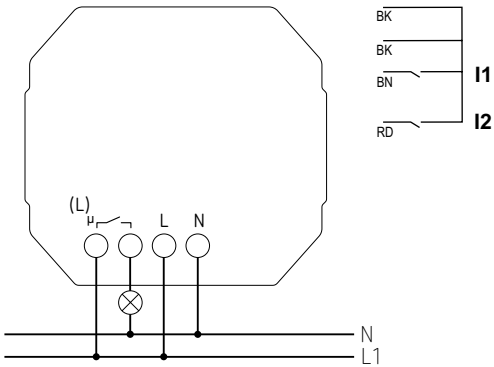
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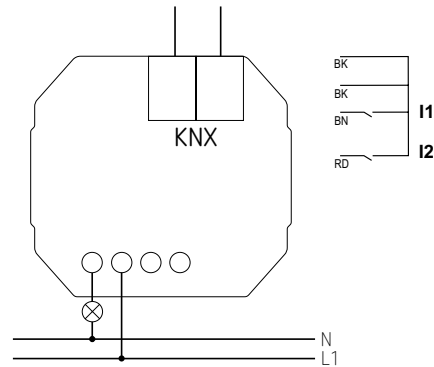
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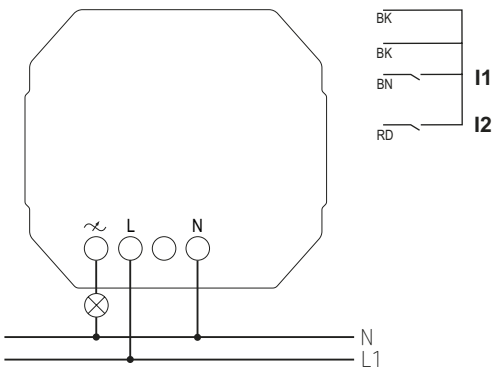
4800621, 4941621



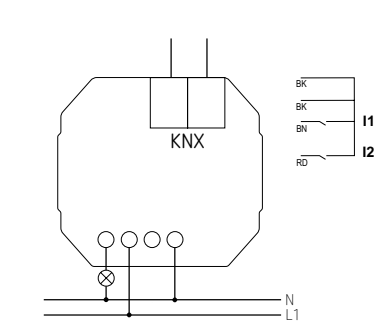
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4800671, 4941671



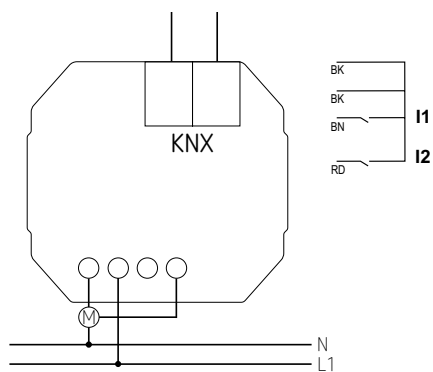
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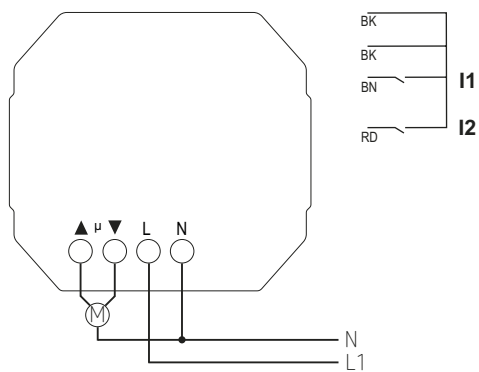
# Technical appendix

## Connection diagrams

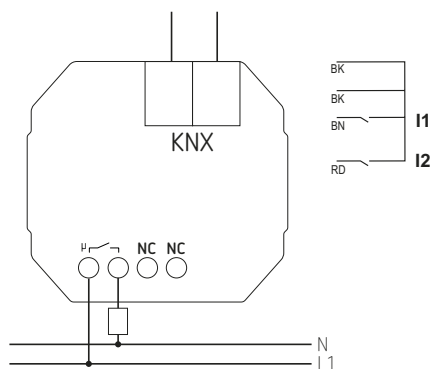
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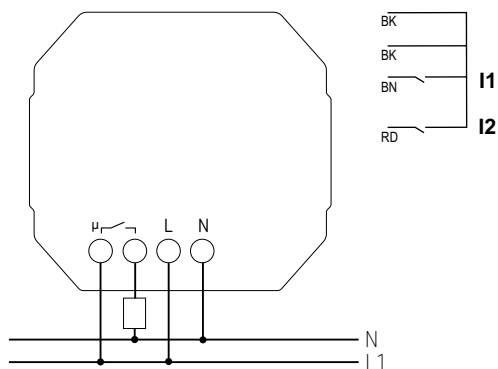
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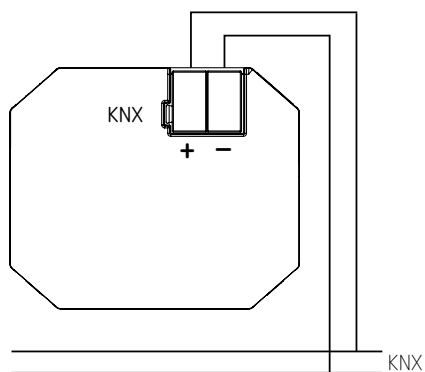
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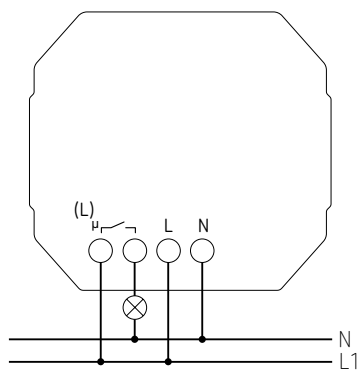
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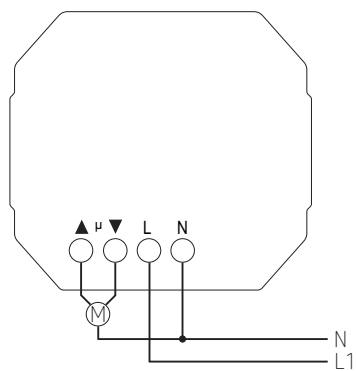
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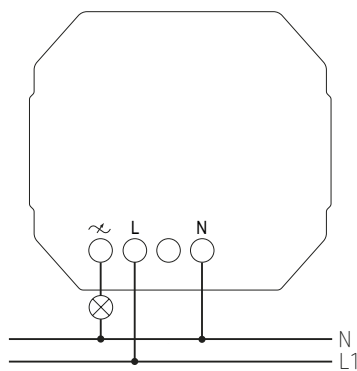
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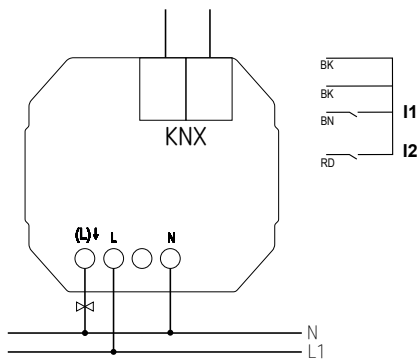
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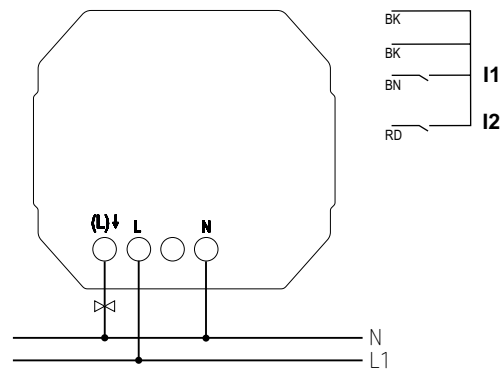
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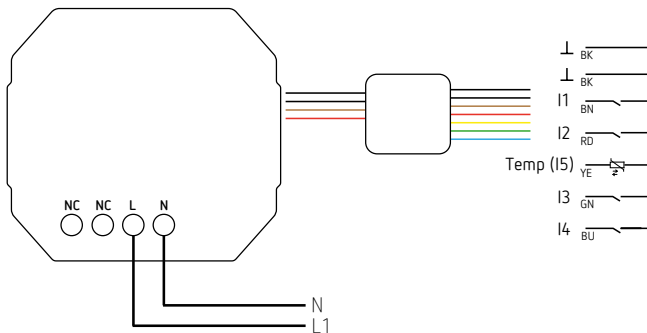
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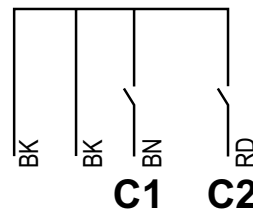
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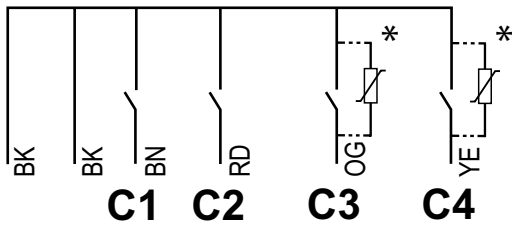
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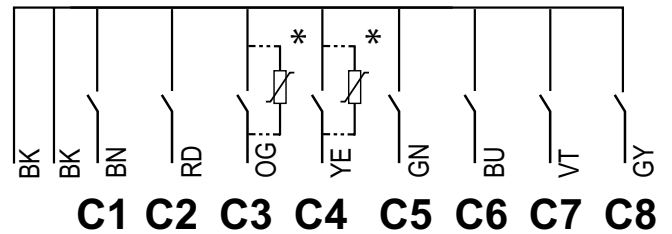
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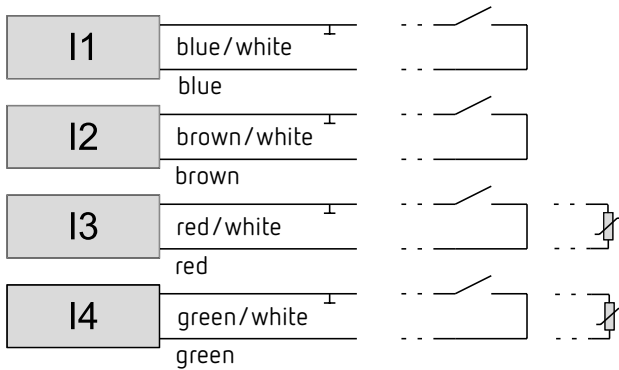
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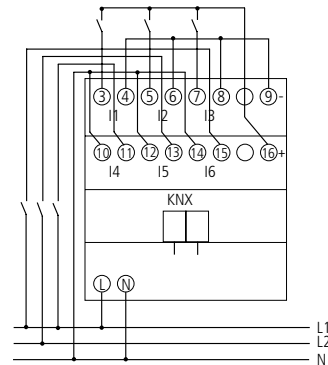
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4800480



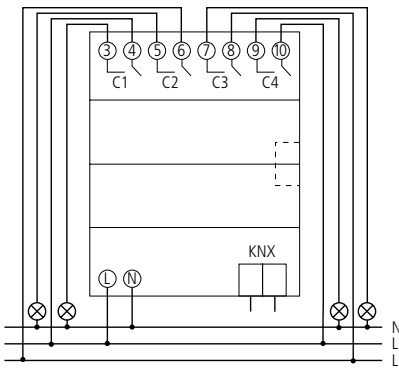
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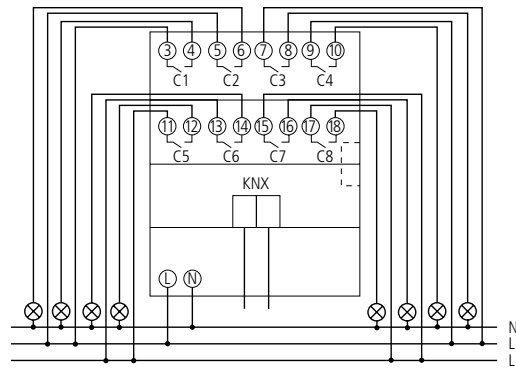
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## Connection diagrams

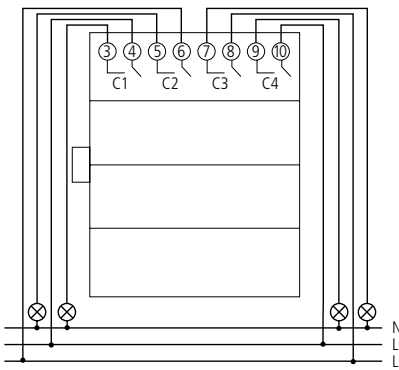
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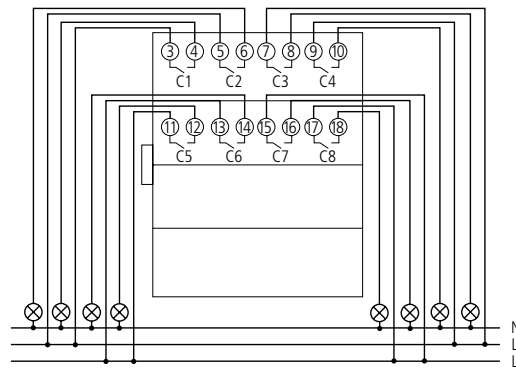
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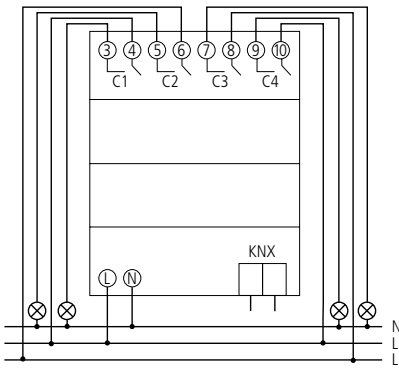
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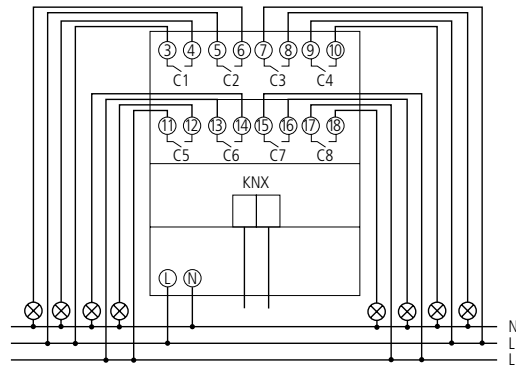
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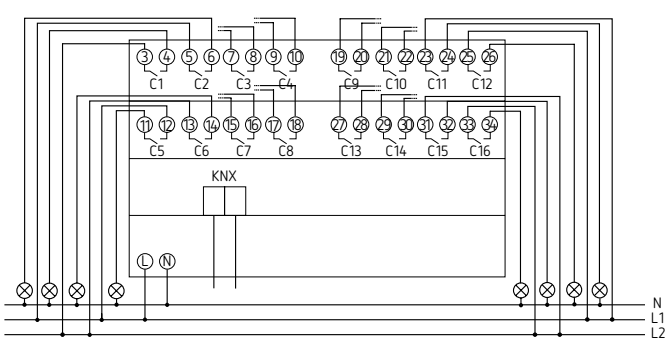
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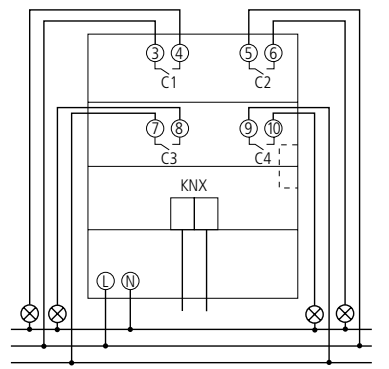
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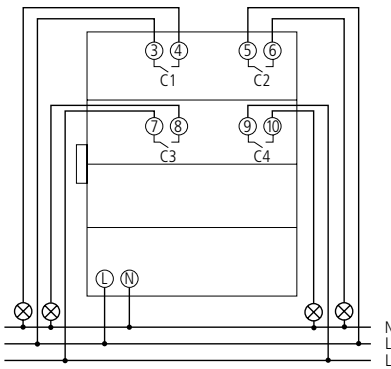
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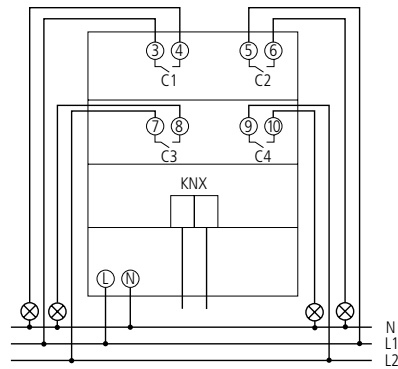
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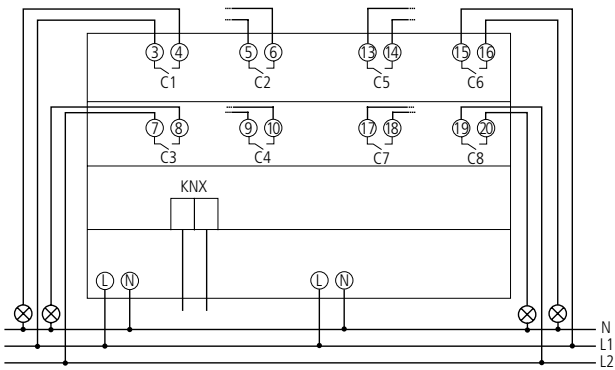
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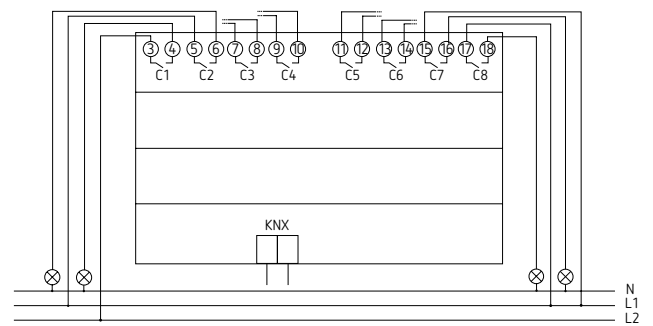
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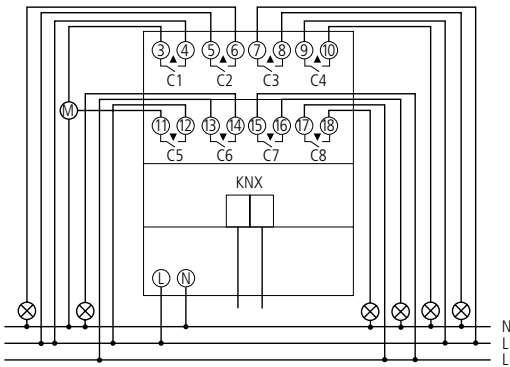
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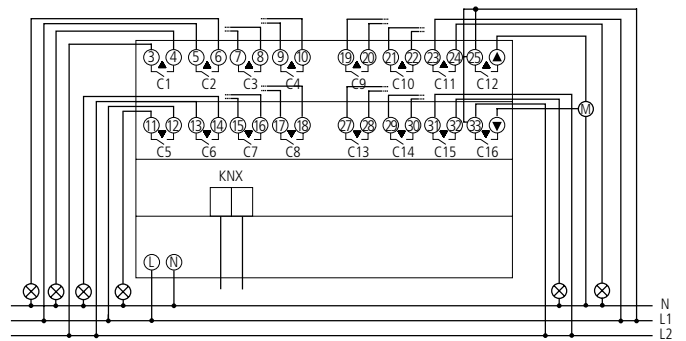
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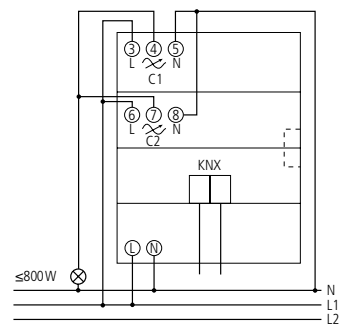
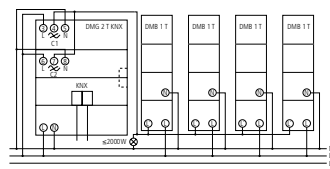
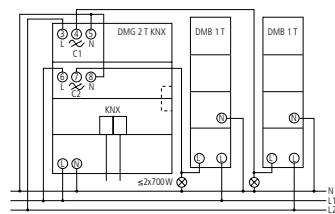
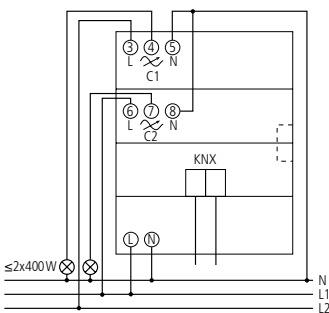
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4940205



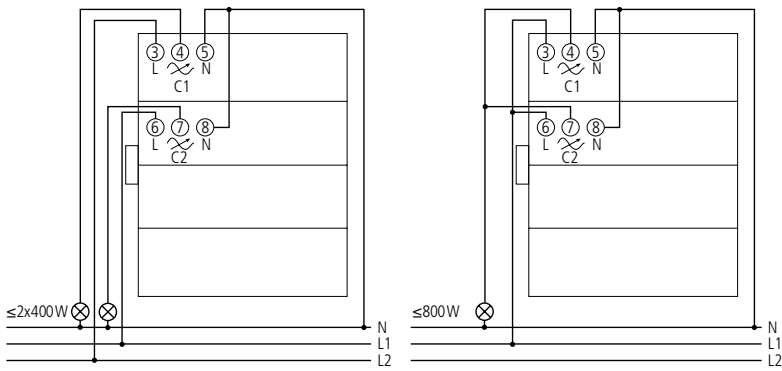
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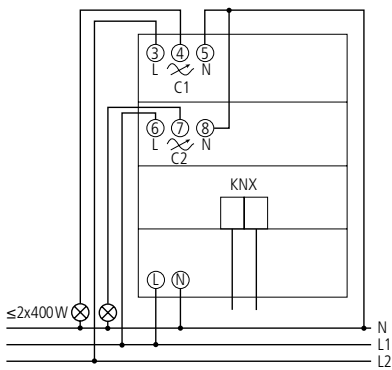
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## Connection diagrams

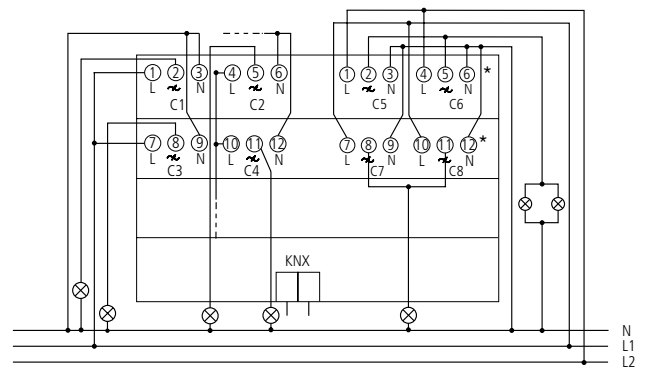
4930275



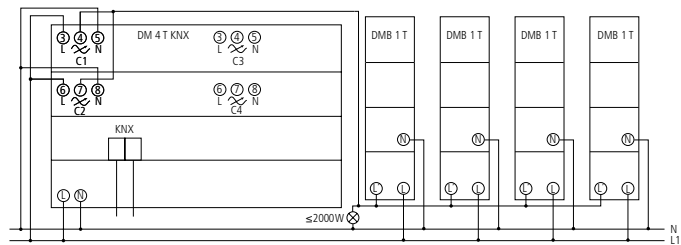
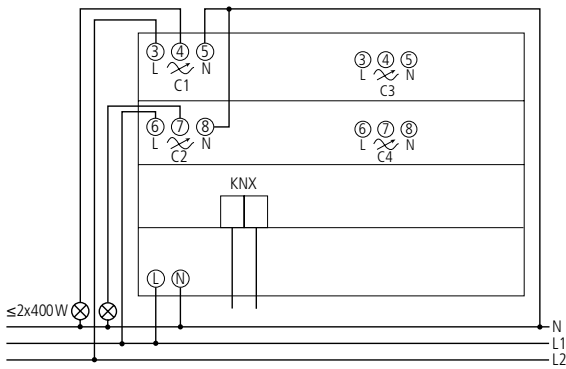
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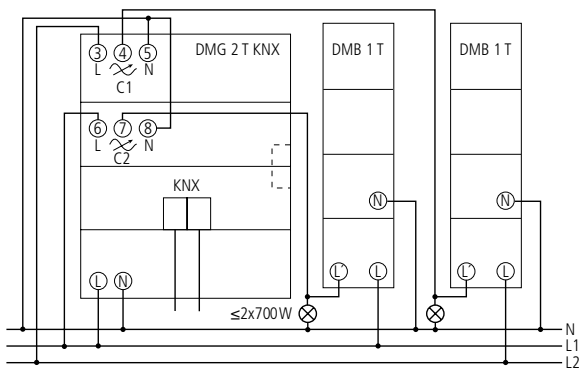
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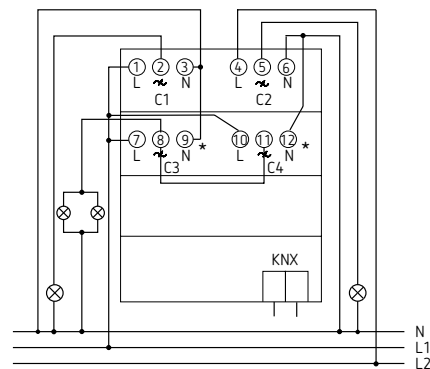
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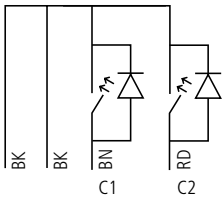
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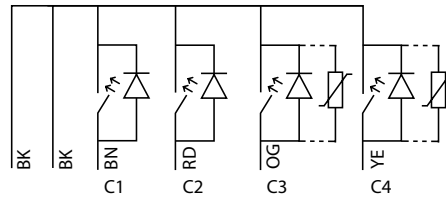
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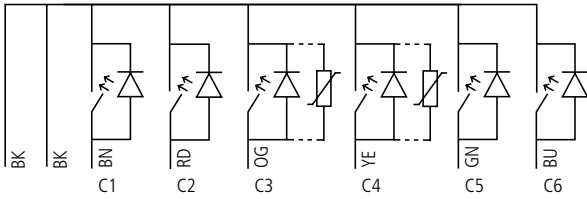
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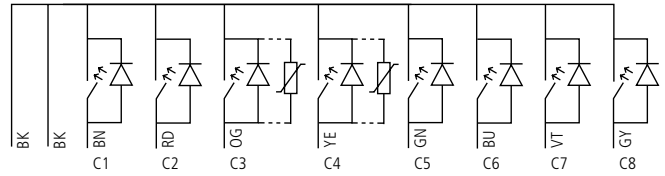
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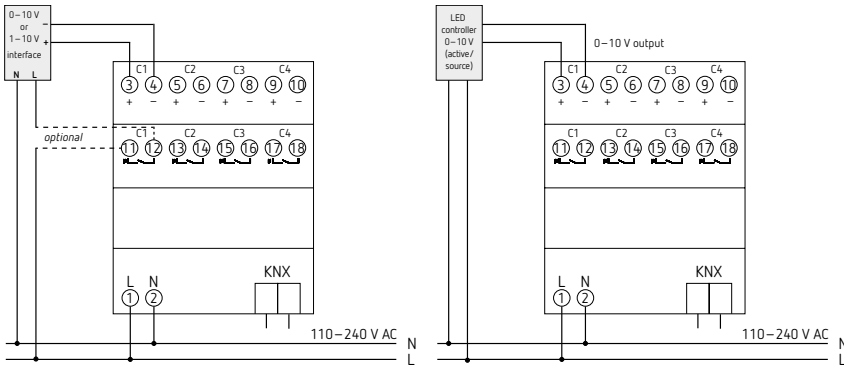
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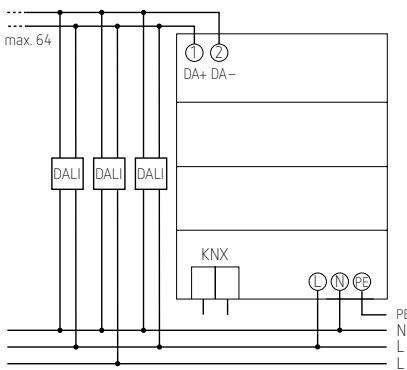
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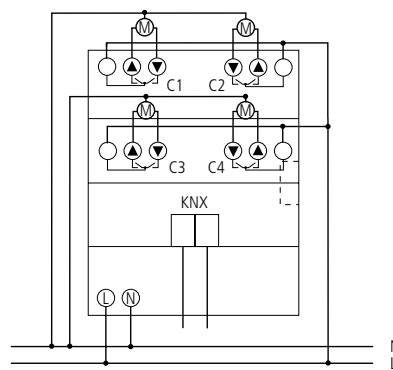
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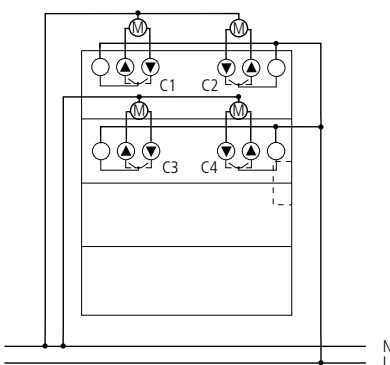
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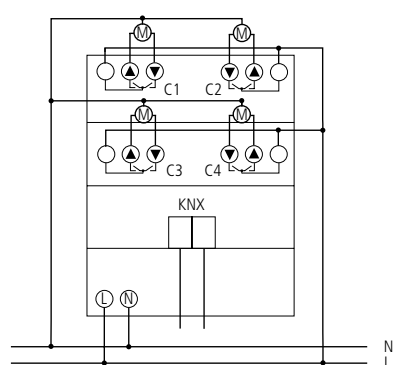
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4930255



4940250

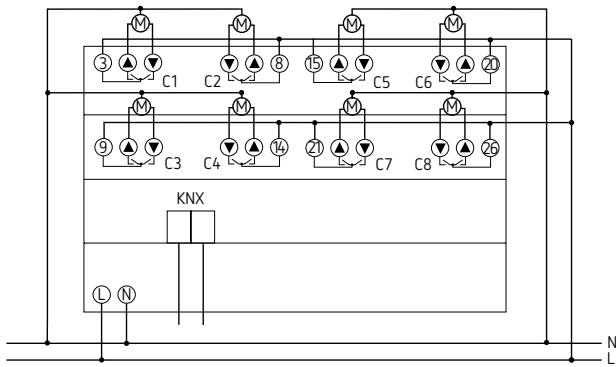




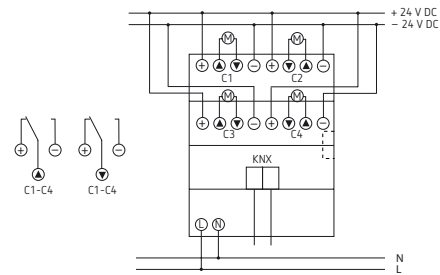
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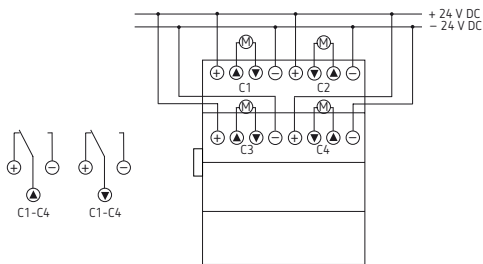
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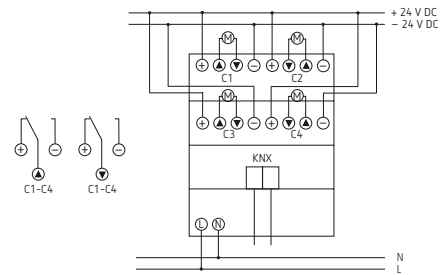
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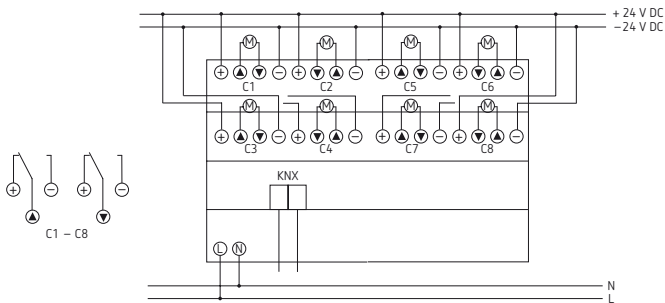
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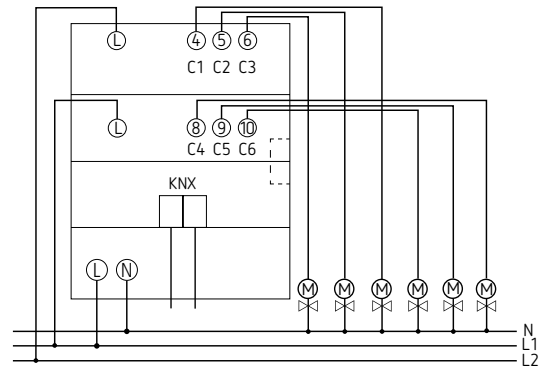
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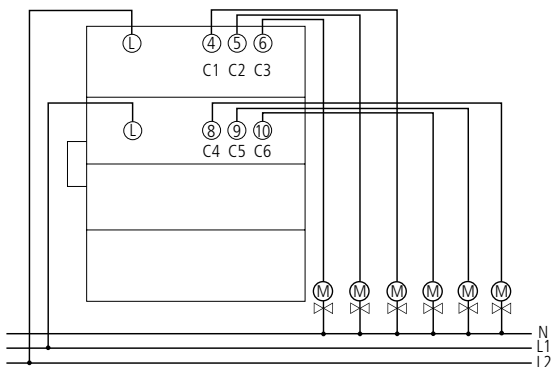
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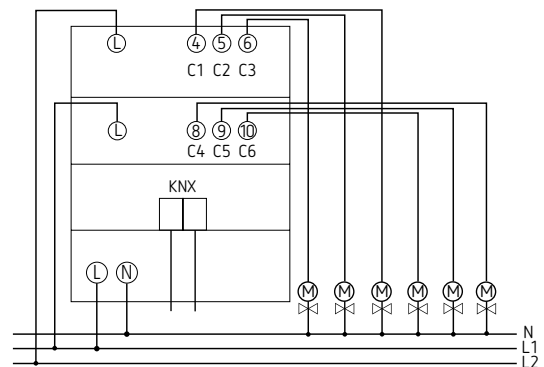
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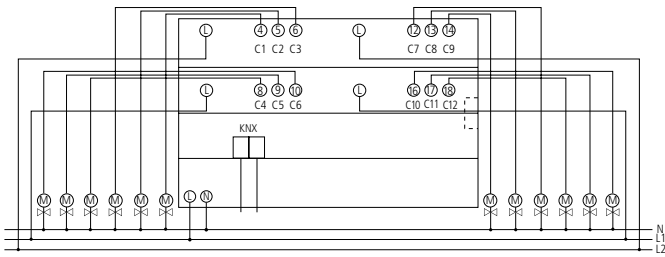
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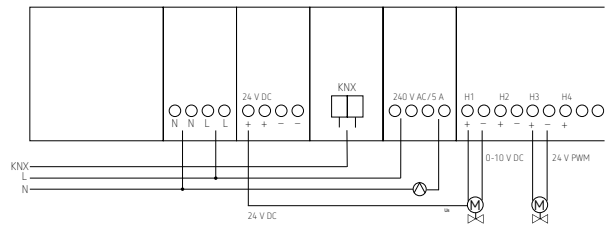
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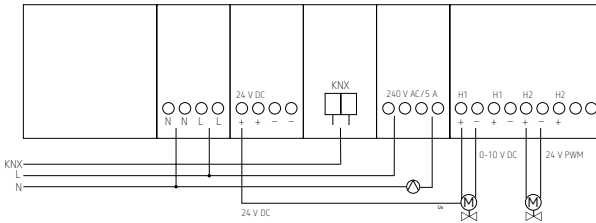
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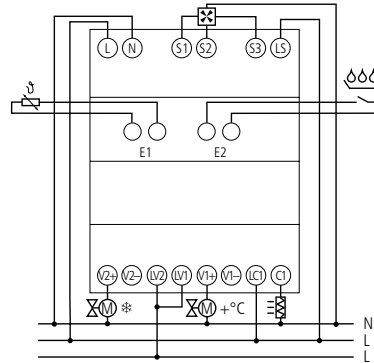
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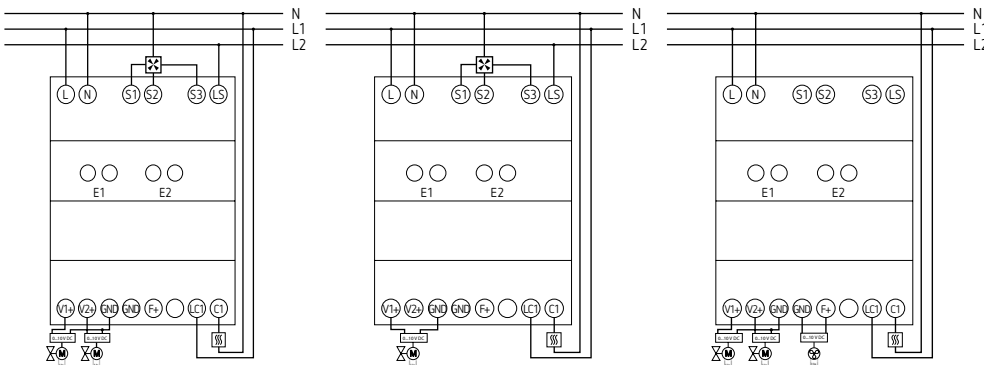
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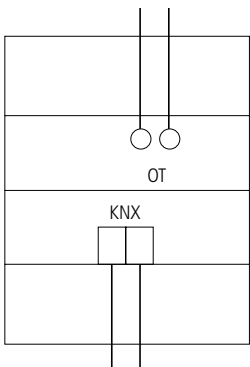
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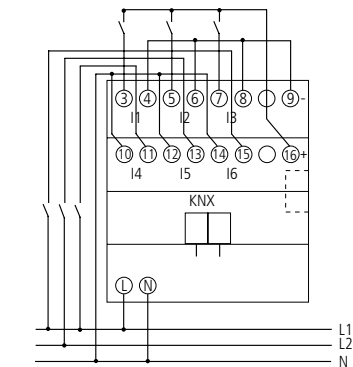
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8559201



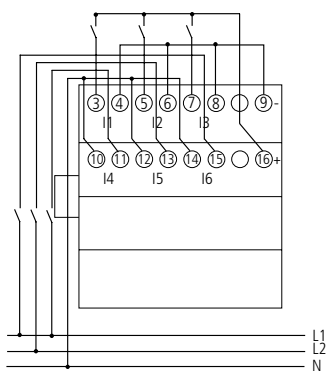
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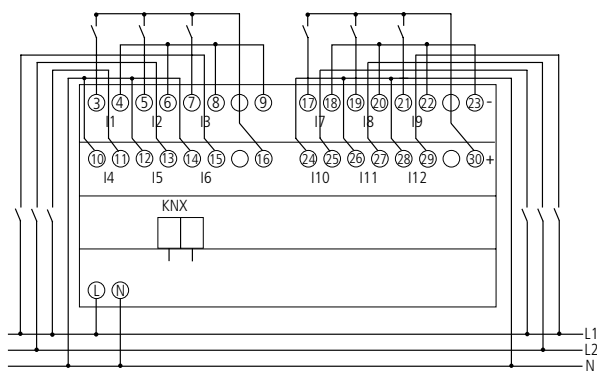
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## Connection diagrams

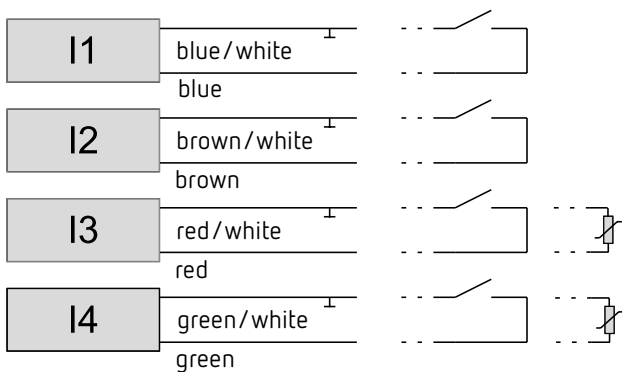
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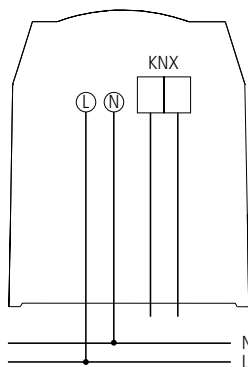
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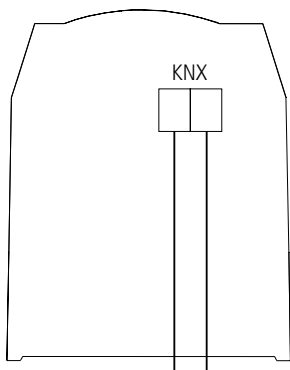
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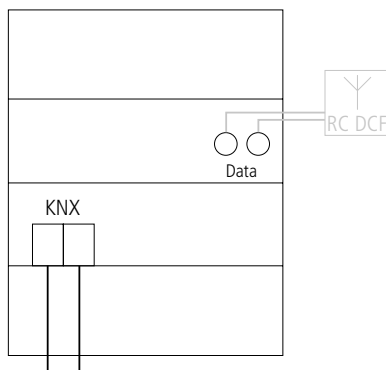
1409207, 1409208



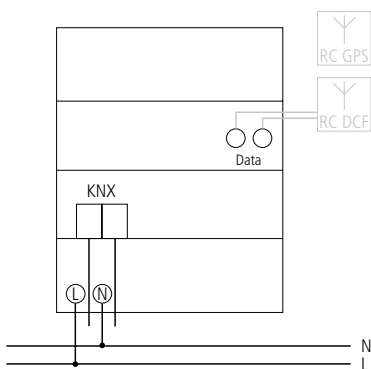
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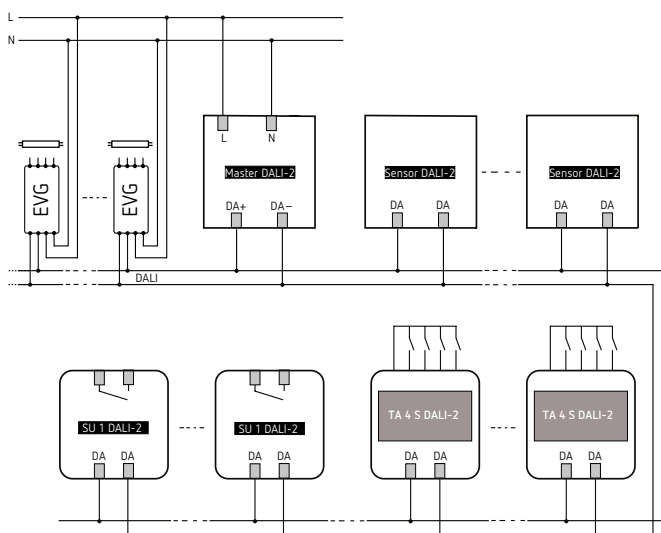
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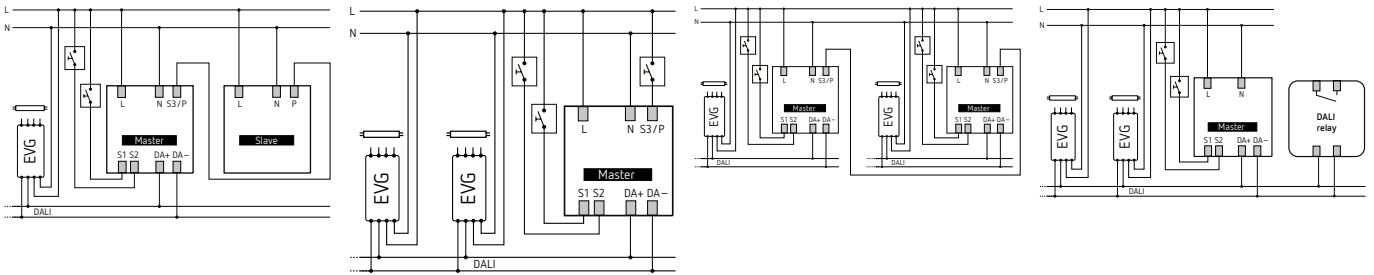
6489212



2080095

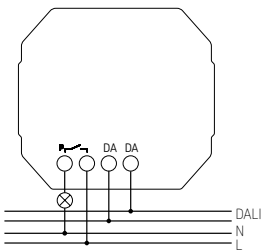


### 2080045

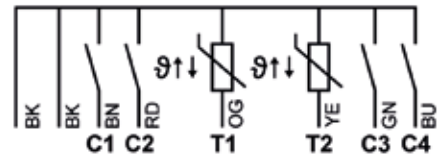


Extension: theRonda P360 Slave UP WH, 2080030

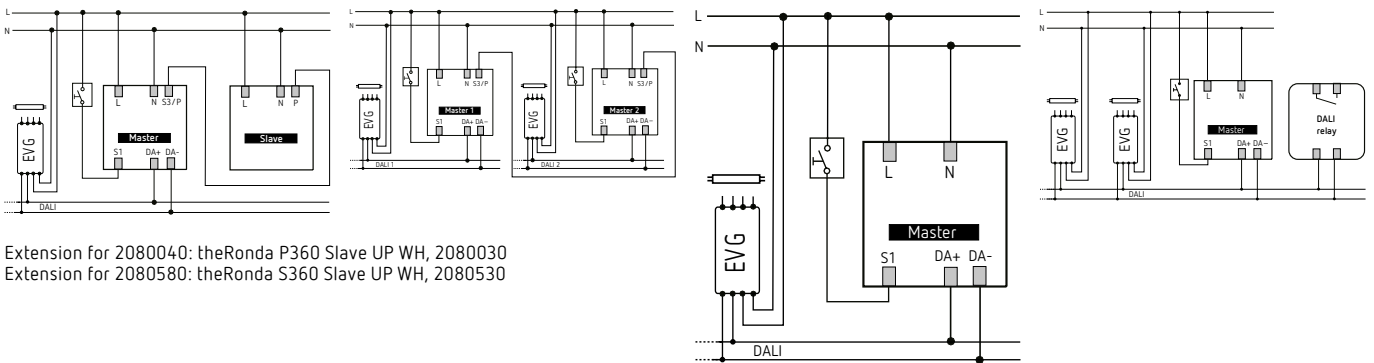
### 4940091



### 4960094

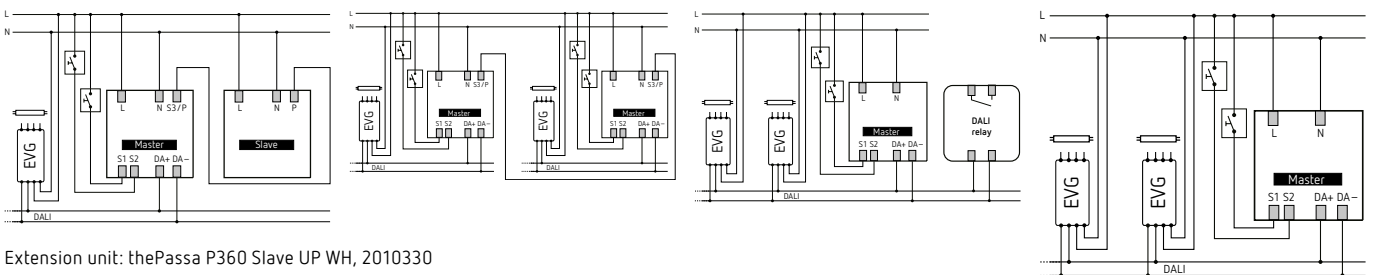


### 2080040, 2080580



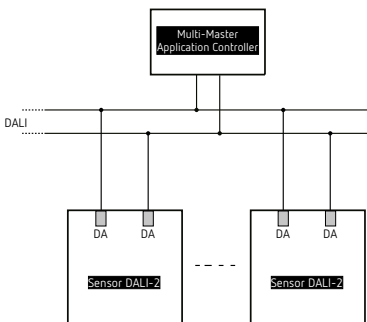
Extension for 2080040: theRonda P360 Slave UP WH, 2080030  
 Extension for 2080580: theRonda S360 Slave UP WH, 2080530

### 2010340



Extension unit: thePassa P360 Slave UP WH, 2010330

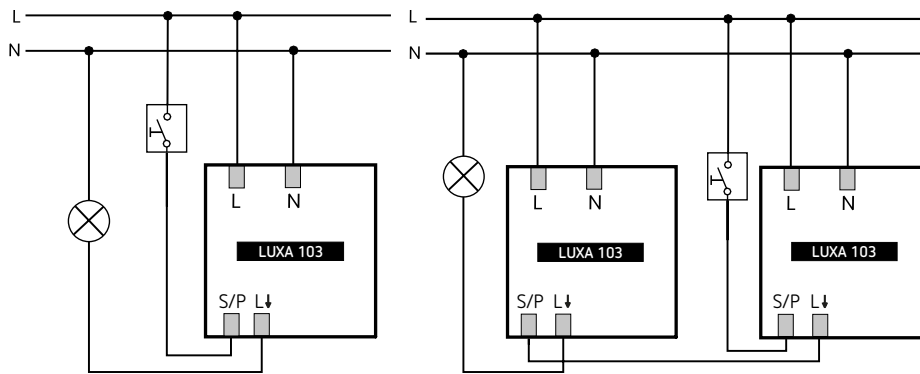
### 2010390, 2030190, 2080090, 2080590



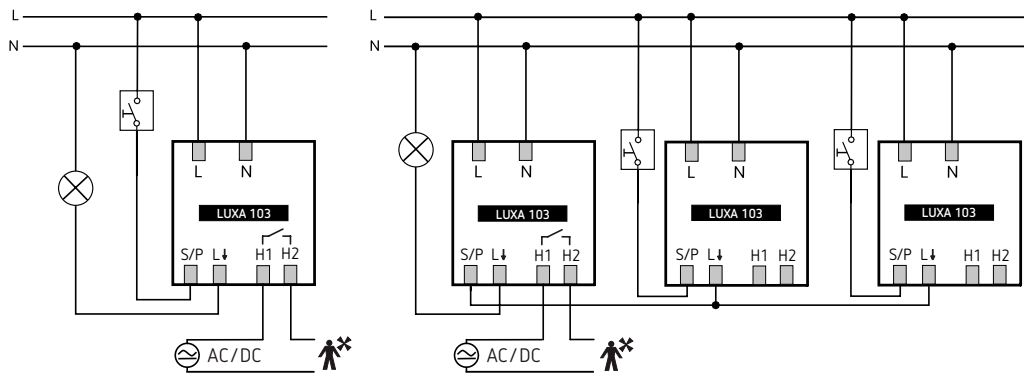
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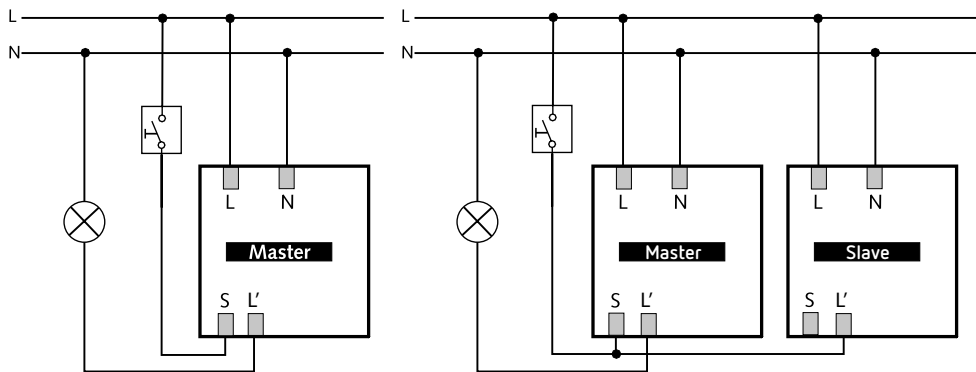
### 1030052, 1030062, 1030072, 1030082



### 1030053, 1030063

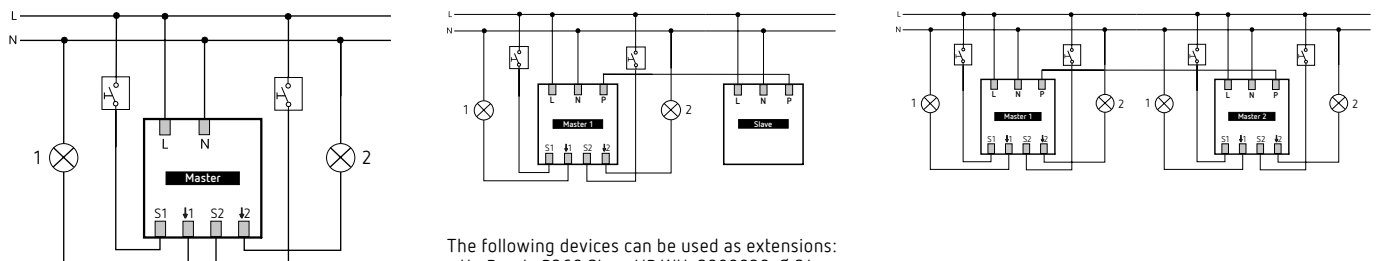


### 2090200



Extension (slave):  
thePiccola P360-100 DE WH, 2090200

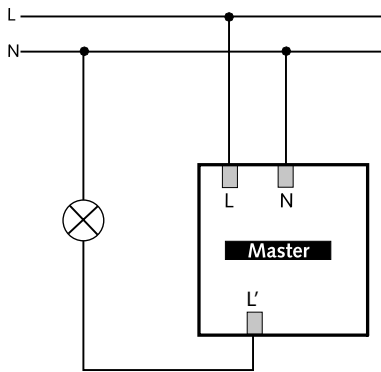
### 1040200



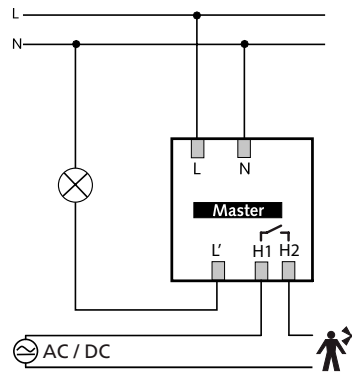
The following devices can be used as extensions:

- theRonda P360 Slave UP WH, 2080030, Ø 24 m
- LUXA 104 S360-200-24 DE-UP WH, 1040200, Ø 24 m
- theRonda S360 Slave UP WH, 2080530, Ø 8 m
- thePassa P360 Slave UP WH, 2010330, 30 x 4,5 m
- thePrema S360 Slave E UP WH, 2070630, 7 x 7 m
- thePrema P360 Slave E UP WH, 2070130, 9 x 9 m

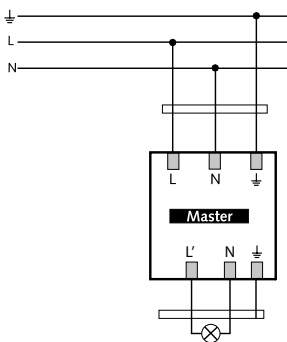
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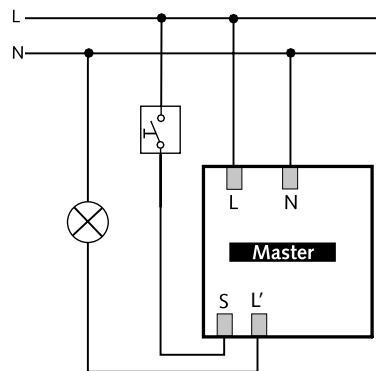
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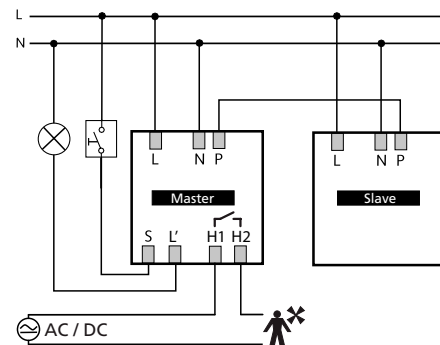
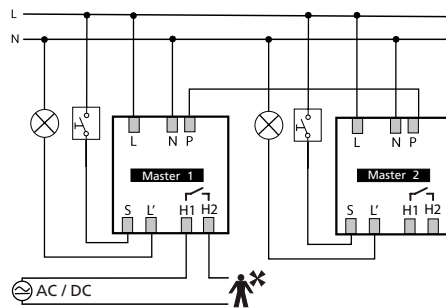
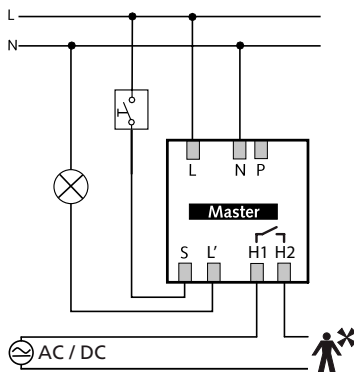
1030570, 2080570



2080520

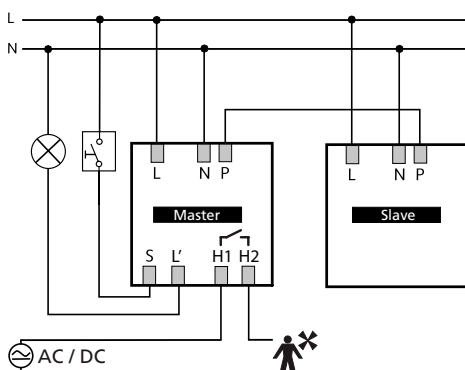


2010300, 2070105, 2070106, 2070107, 2070605, 2070606, 2070607, 2080025, 2080525



Extension for 2010300: thePassa P360 Slave UP WH, 2010330  
 Extension for 2070105: thePrema P360 Slave E UP WH, 2070130  
 Extension for 2070106: thePrema P360 Slave E UP GR, 2070131  
 Extension for 2070107: thePrema P360 Slave E UP BK, 2070132  
 Extension for 2070605: thePrema S360 Slave E UP WH, 2070630  
 Extension for 2070606: thePrema S360 Slave E UP GR, 2070631  
 Extension for 2070607: thePrema S360 Slave E UP BK, 2070632  
 Extension for 2080025: theRonda P360 Slave UP WH, 2080030  
 Extension for 2080525: theRonda S360 Slave UP WH, 2080530

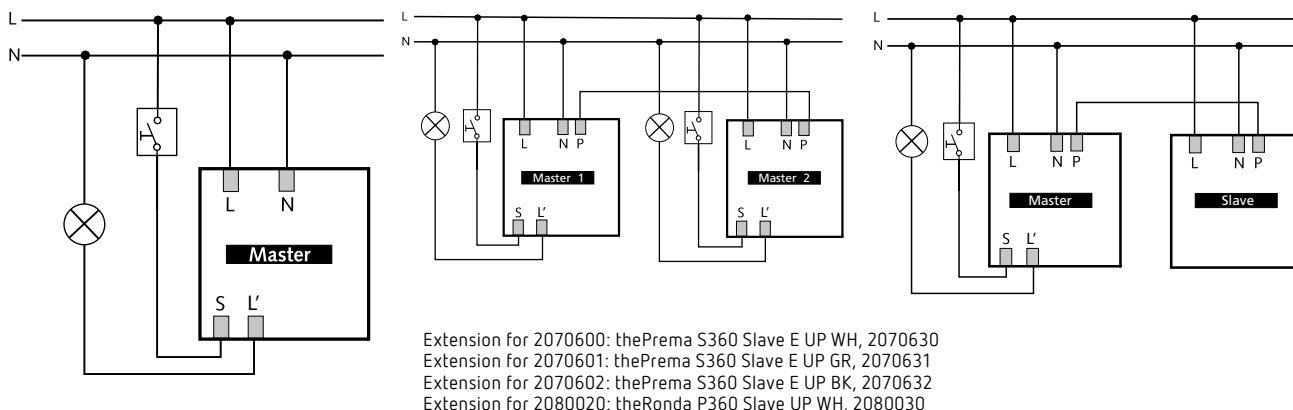
2010330, 2080030, 2080530



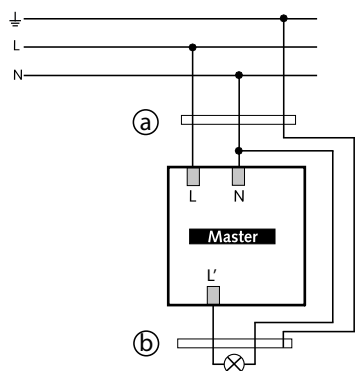
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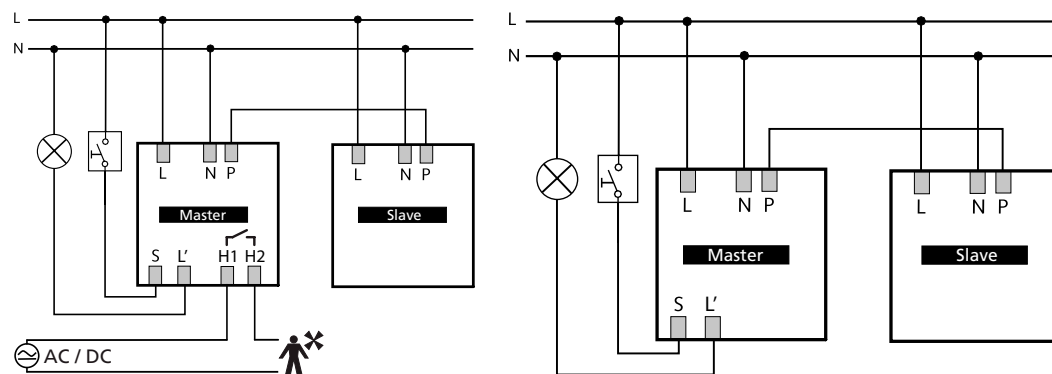
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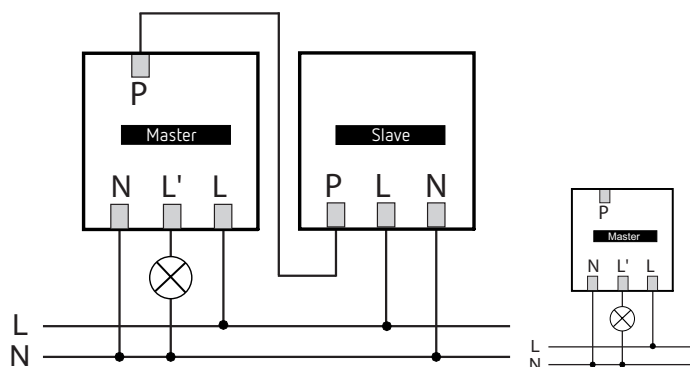
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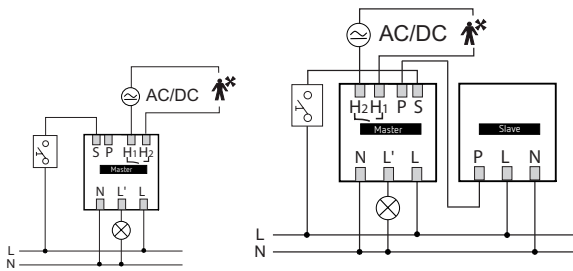
### 2070130, 2070131, 2070132, 2070630, 2070631, 2070632



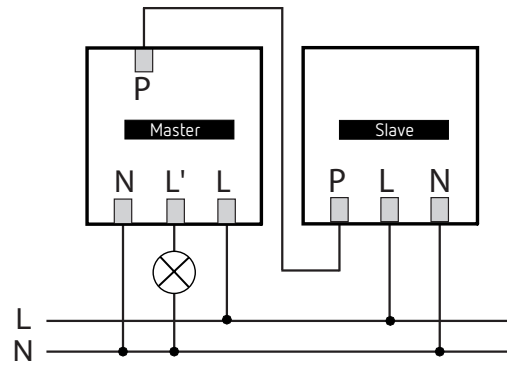
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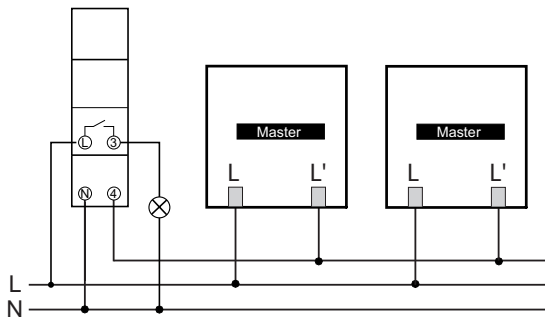
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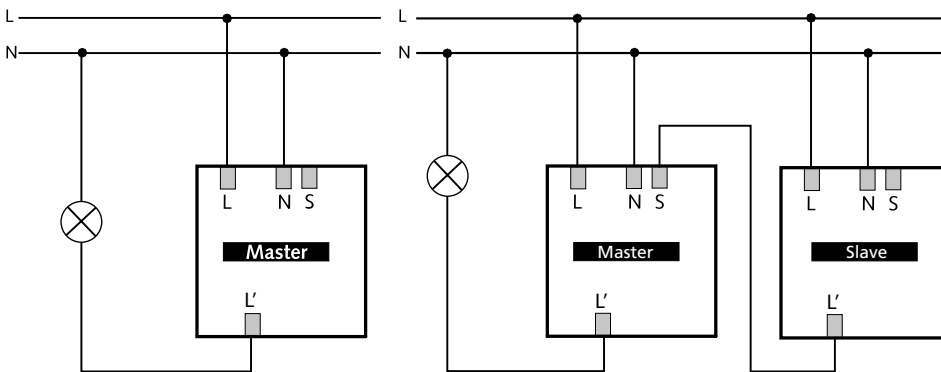
2060660, 2060760



2060670, 2060770

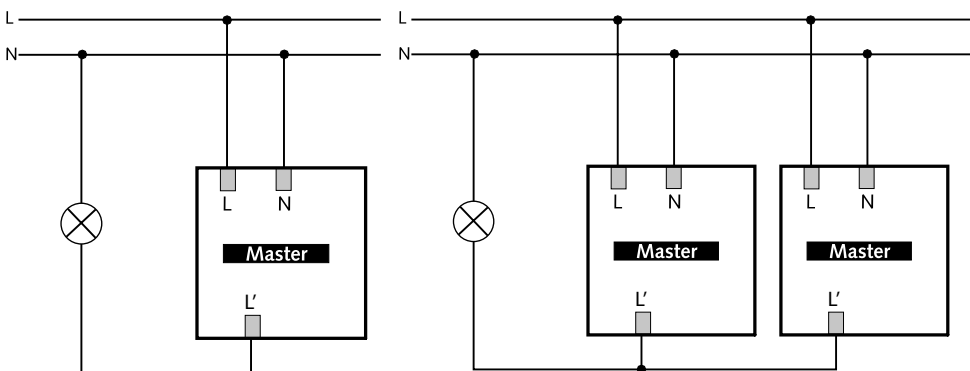


1060200



Extension (slave):  
thePiccola S360-100 DE WH, 1060200

1030600

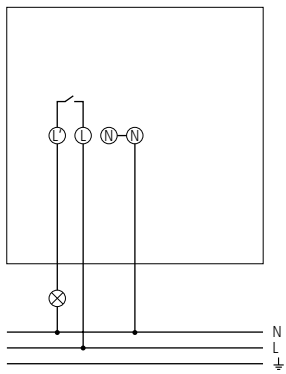




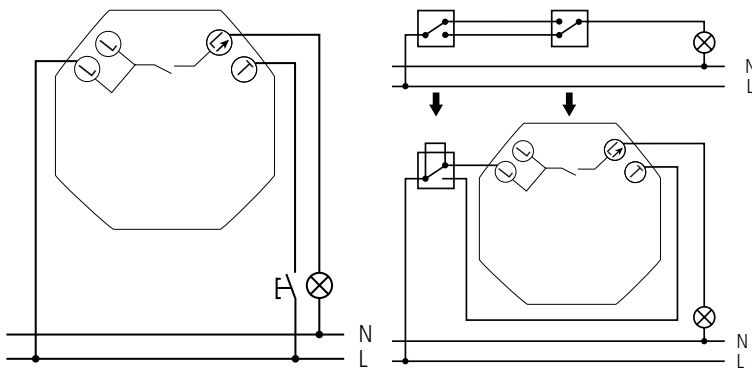
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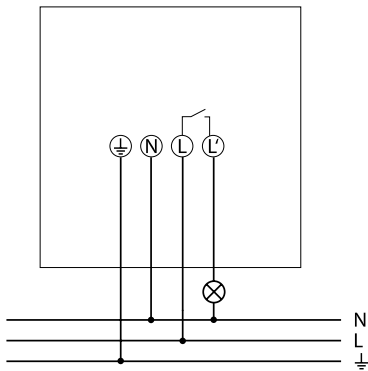
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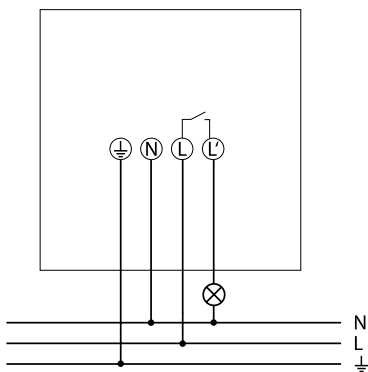
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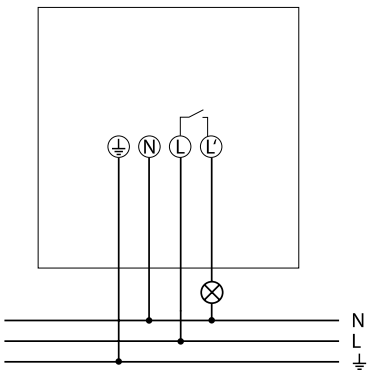
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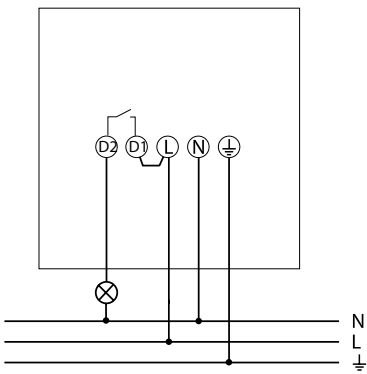
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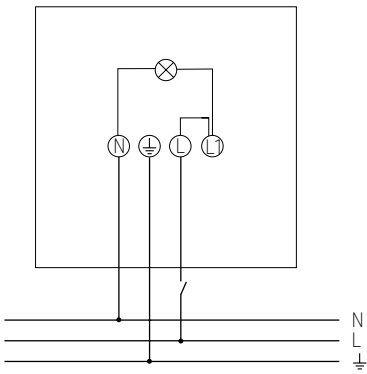
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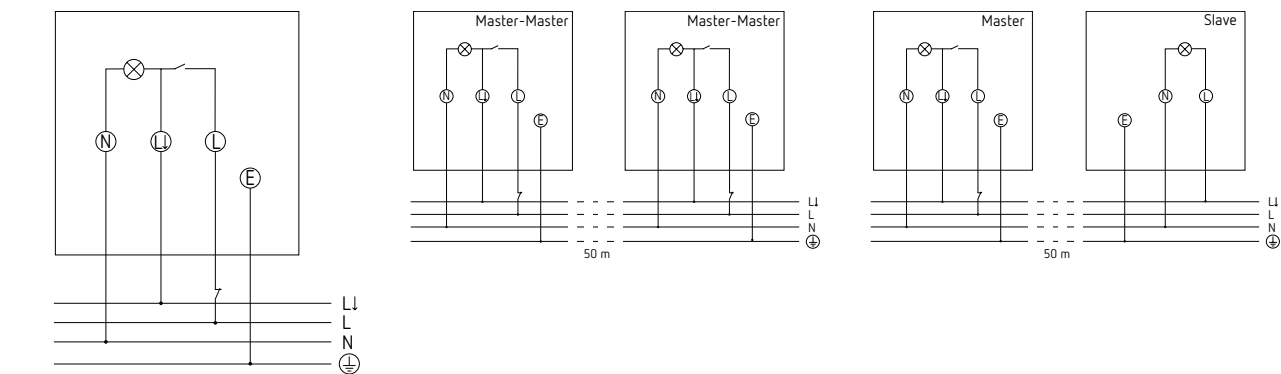
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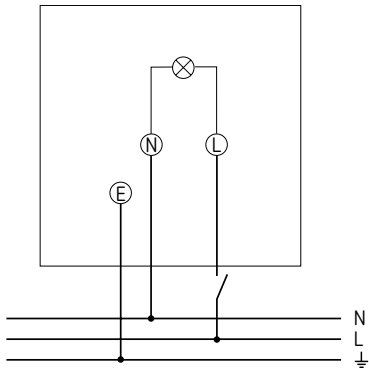
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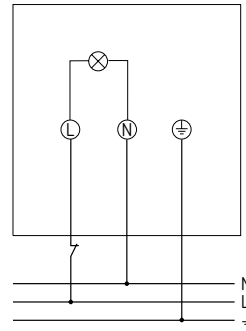
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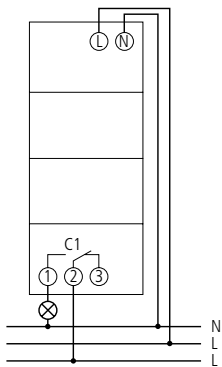
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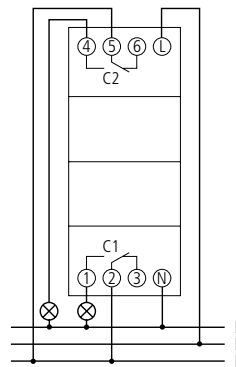
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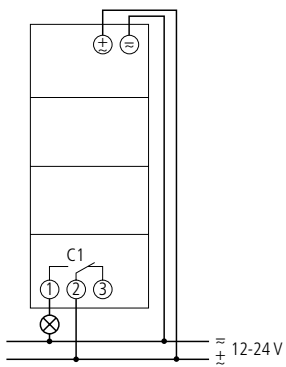
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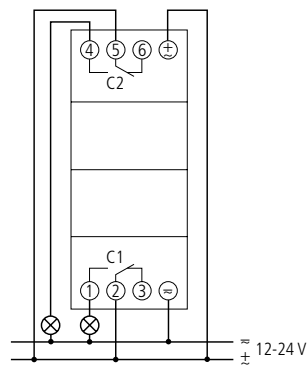
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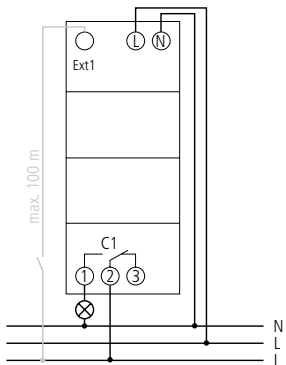
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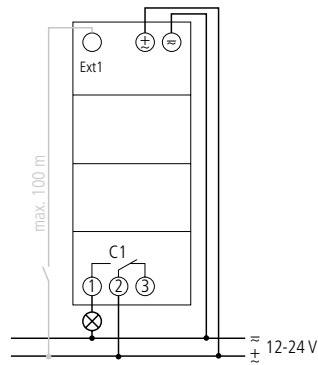
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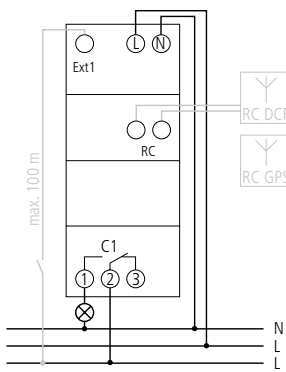
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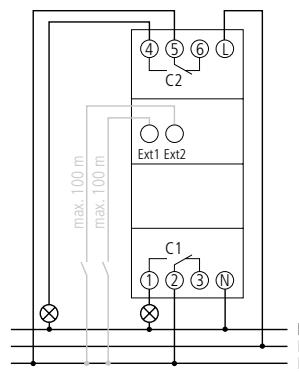
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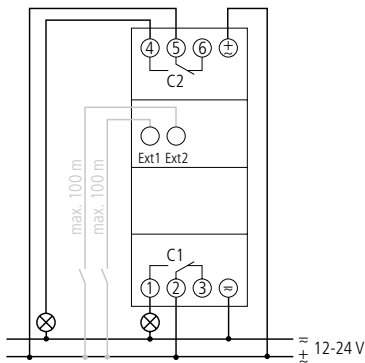
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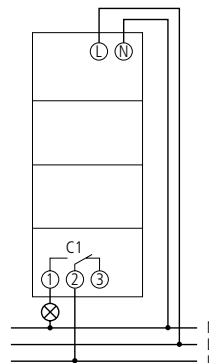
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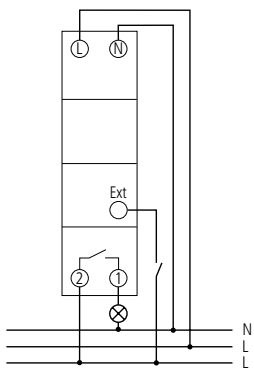
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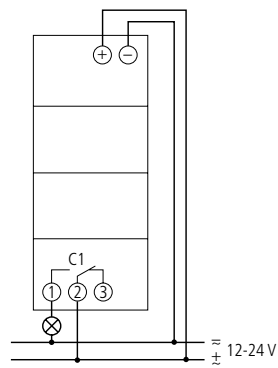
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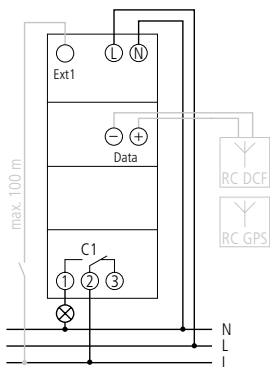
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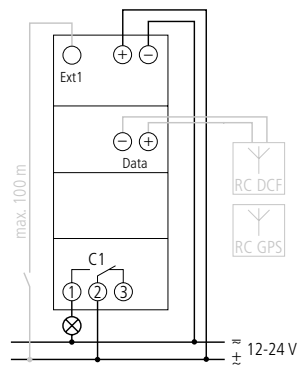
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1710330



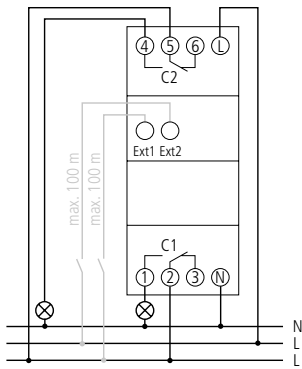
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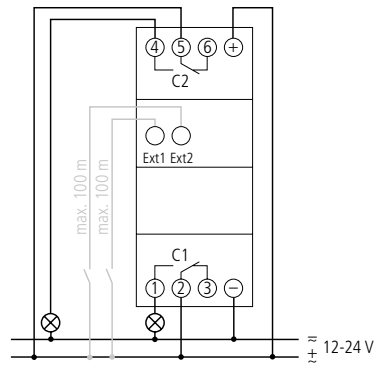
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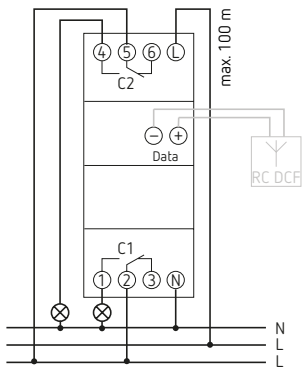
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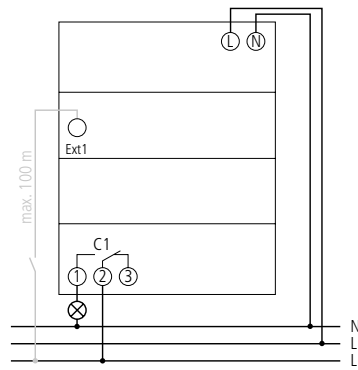
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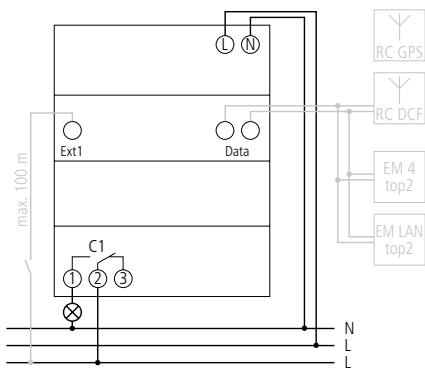
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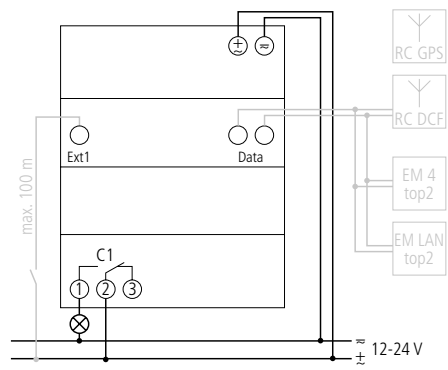
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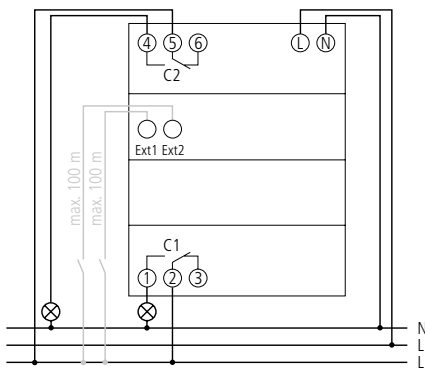
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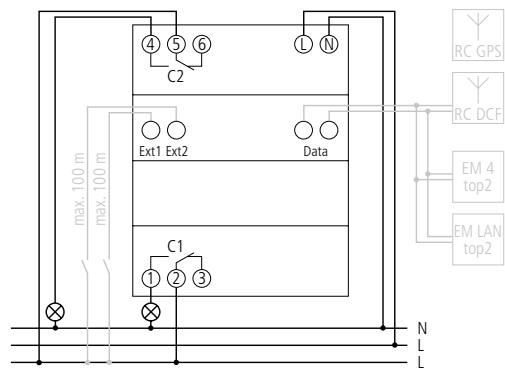
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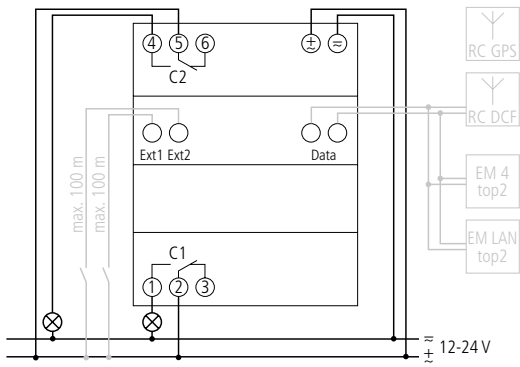
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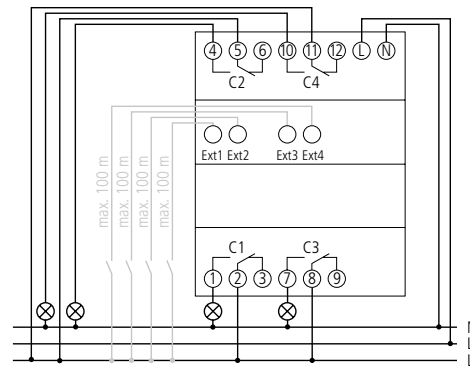
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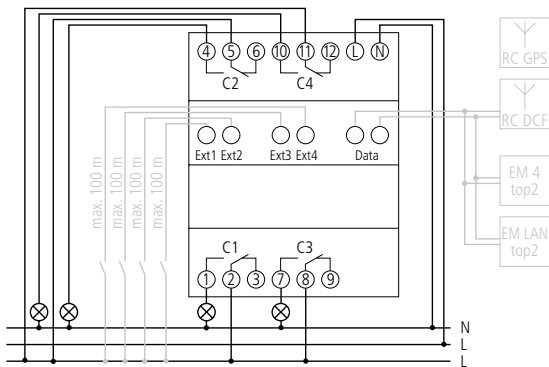
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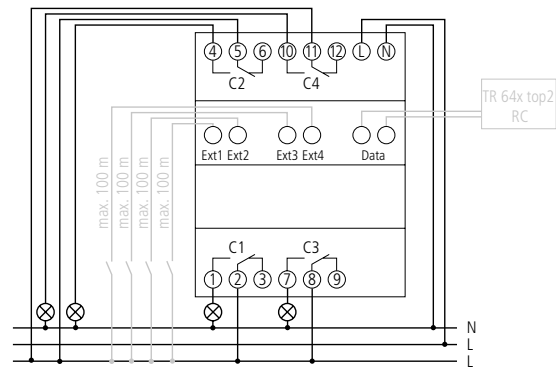
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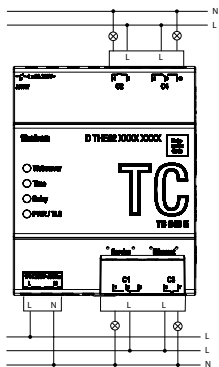
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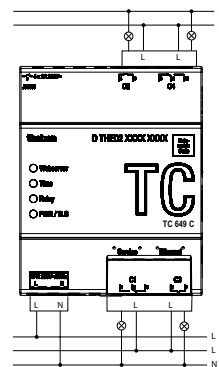
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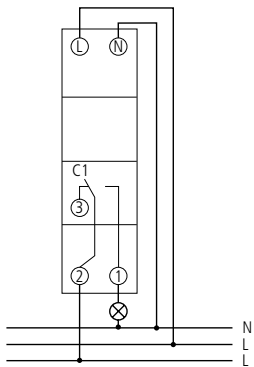
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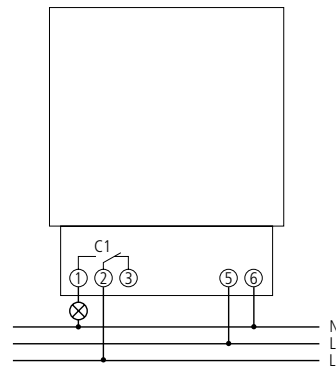
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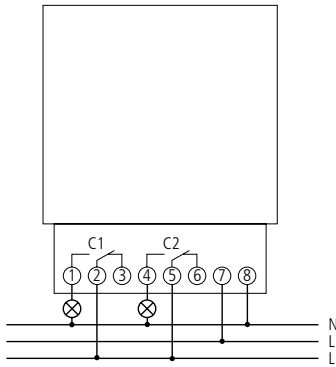
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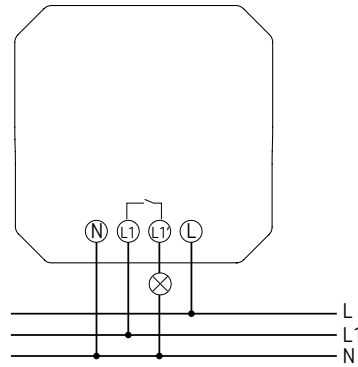
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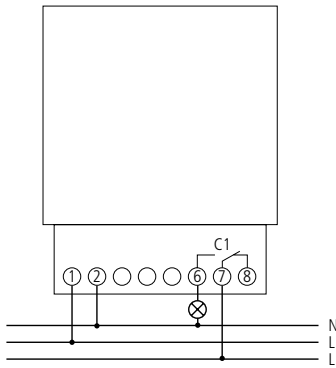
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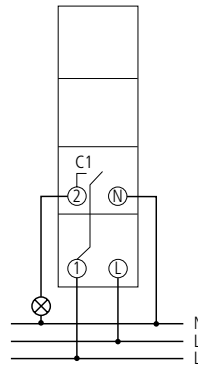
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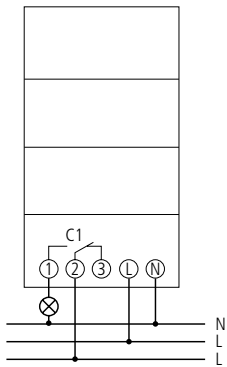
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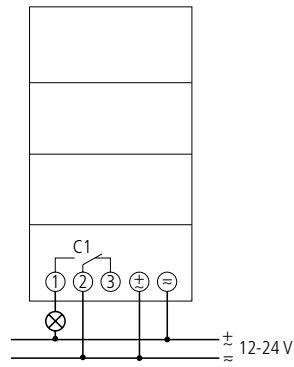
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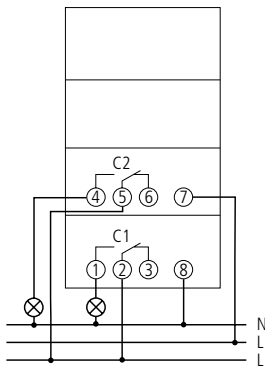
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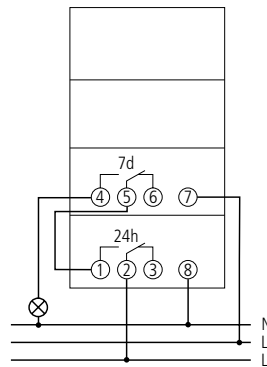
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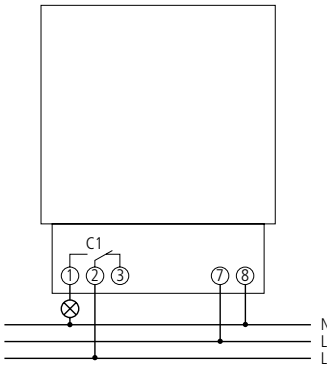
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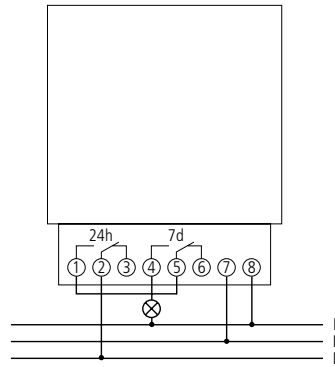
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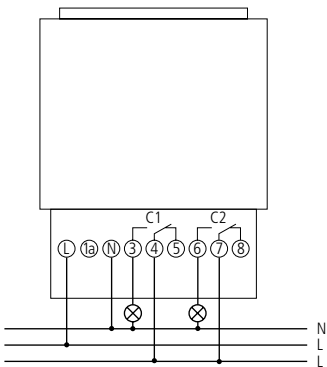
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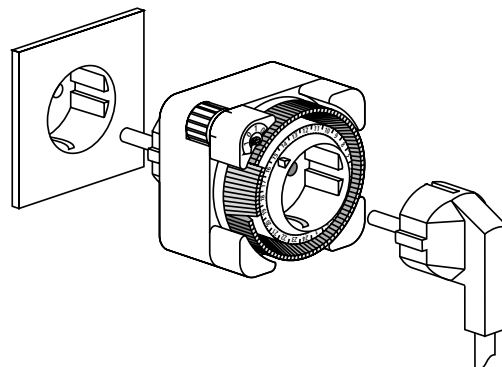
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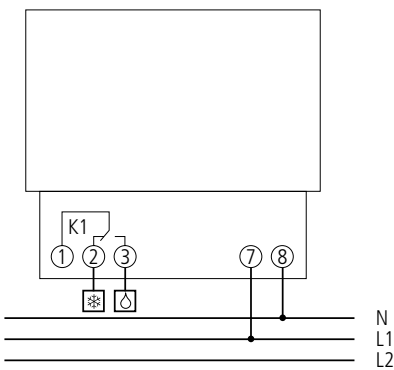
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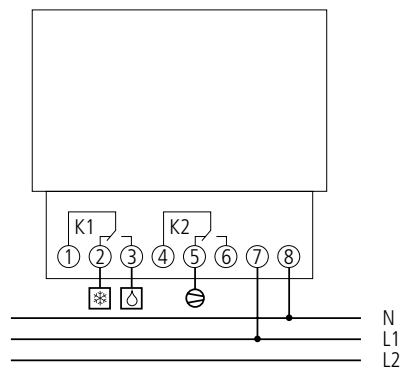
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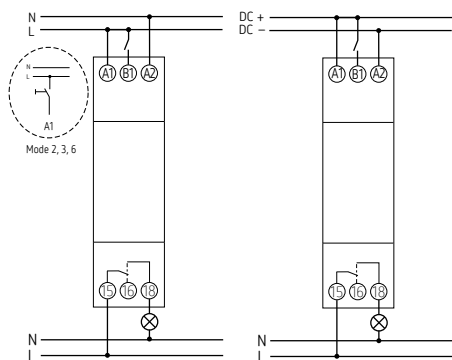
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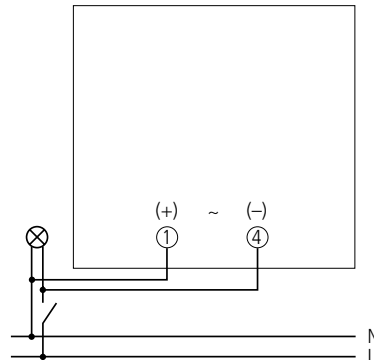
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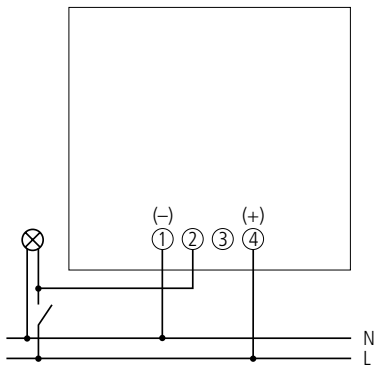




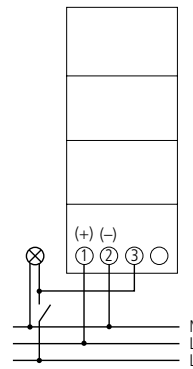
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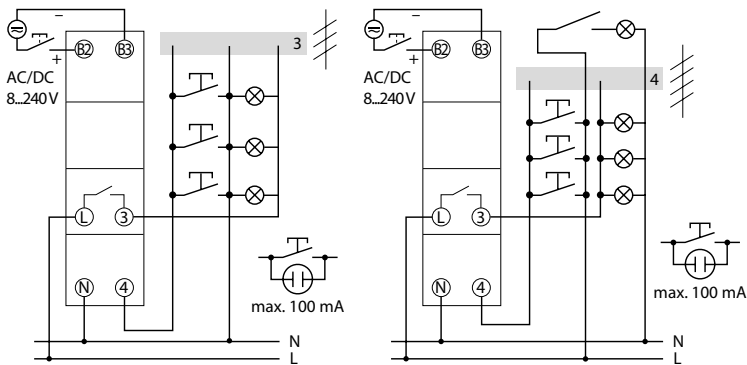
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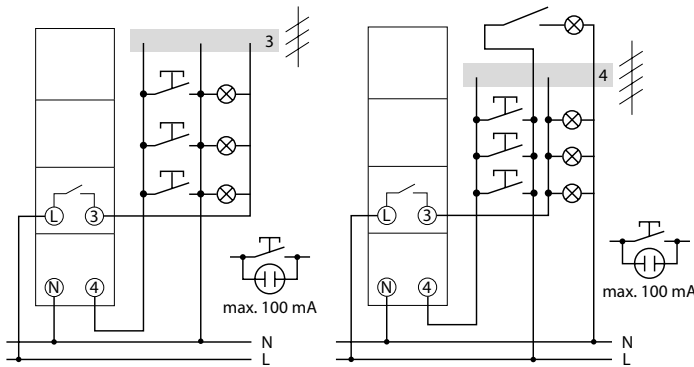
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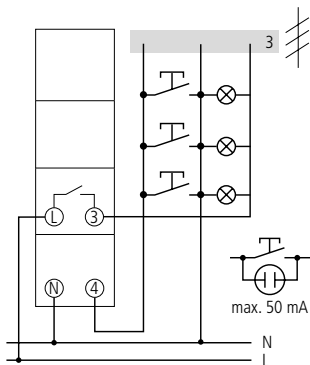
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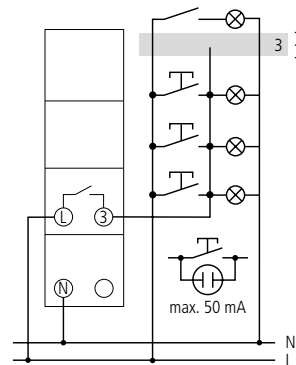
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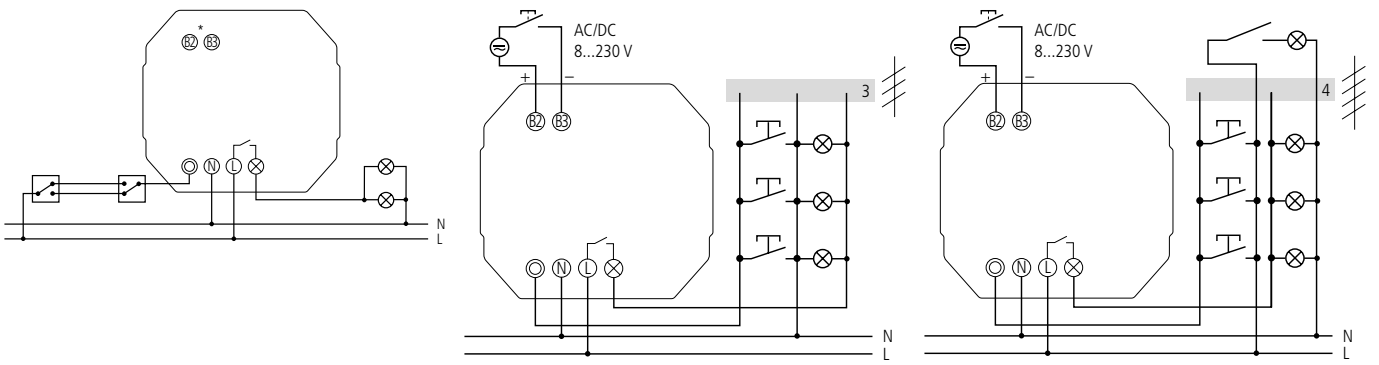
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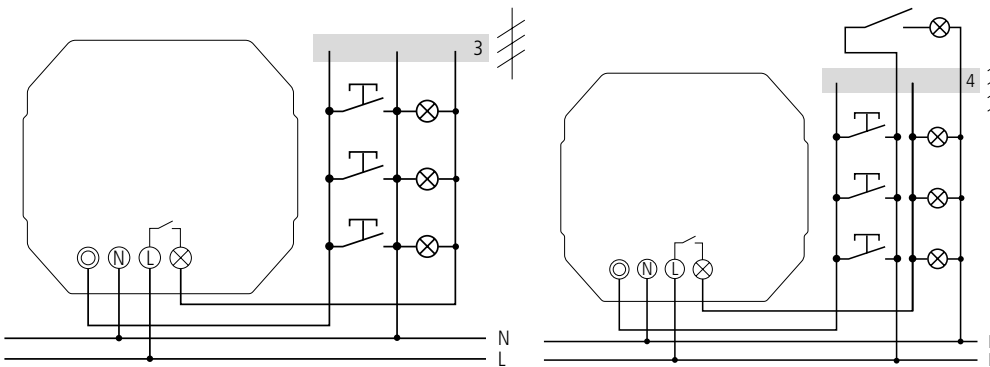
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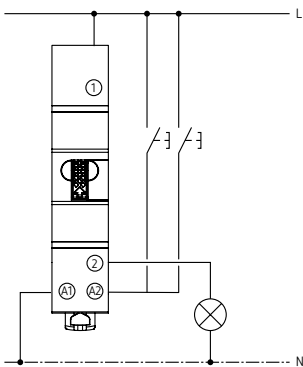
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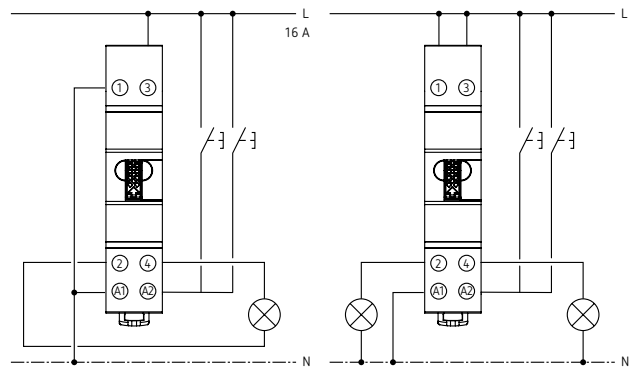
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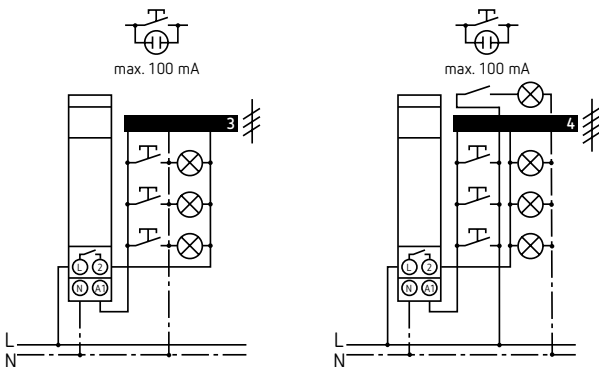
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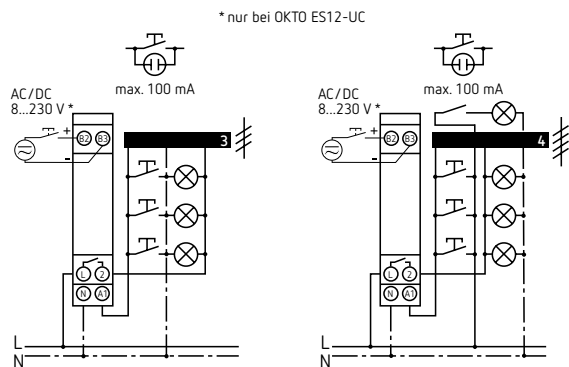
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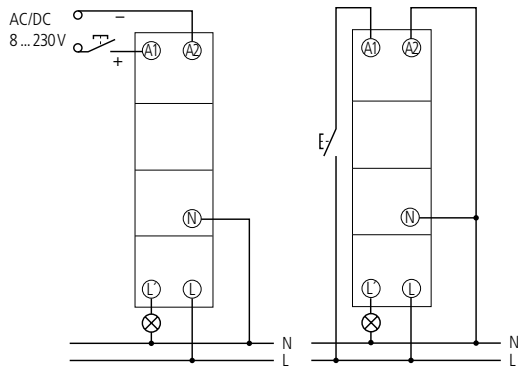
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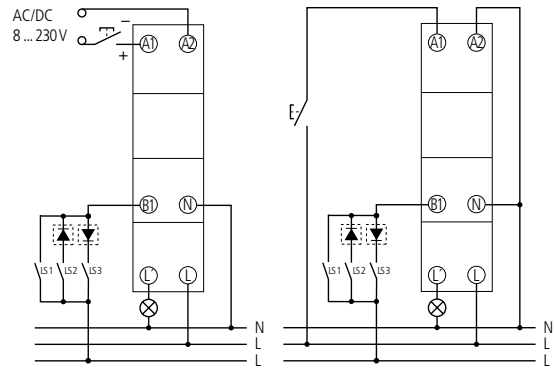
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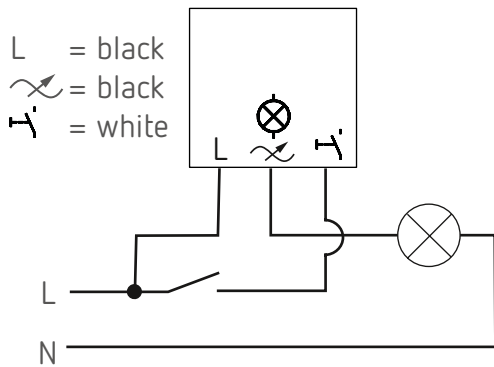
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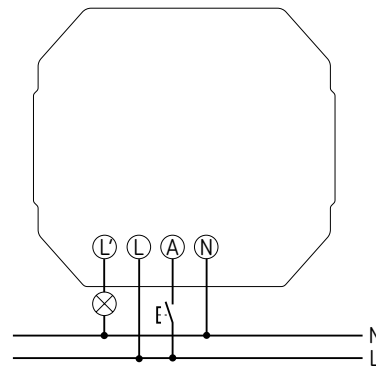
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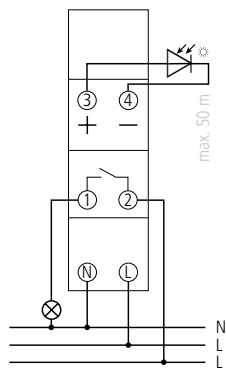
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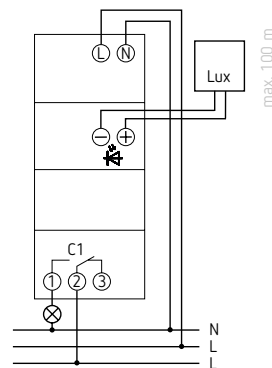
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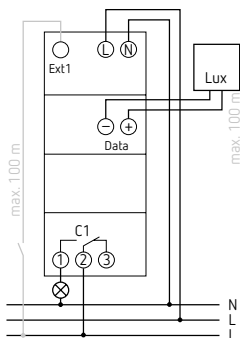
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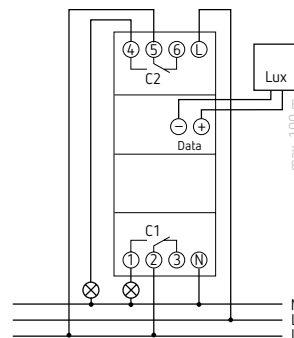
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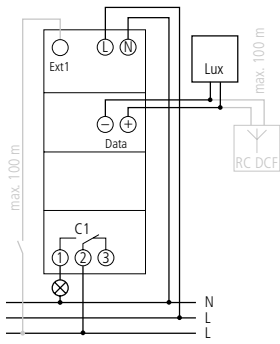
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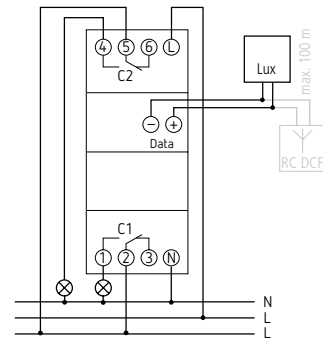
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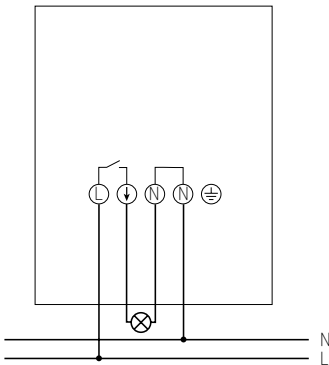
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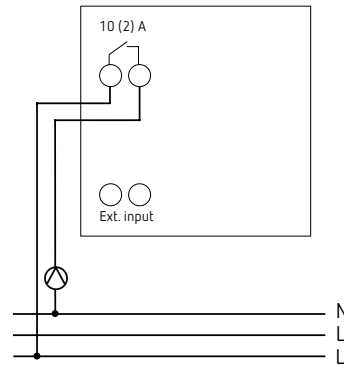
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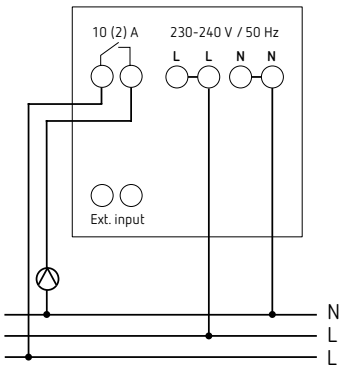
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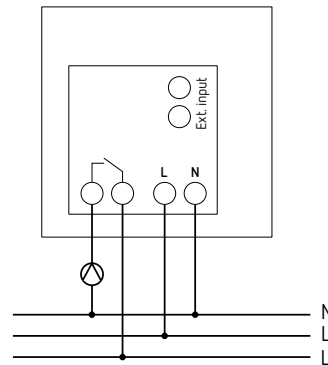
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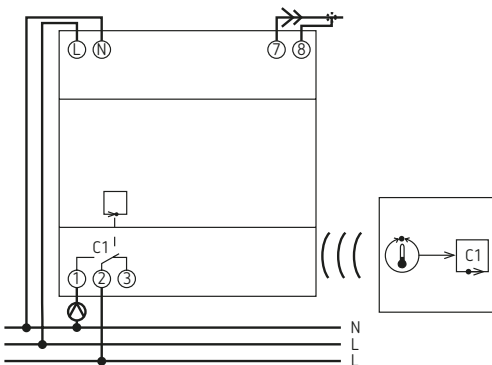
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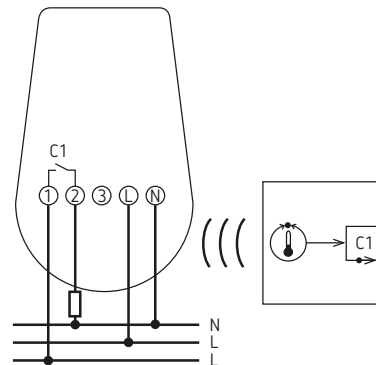
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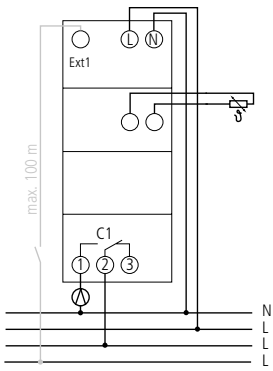
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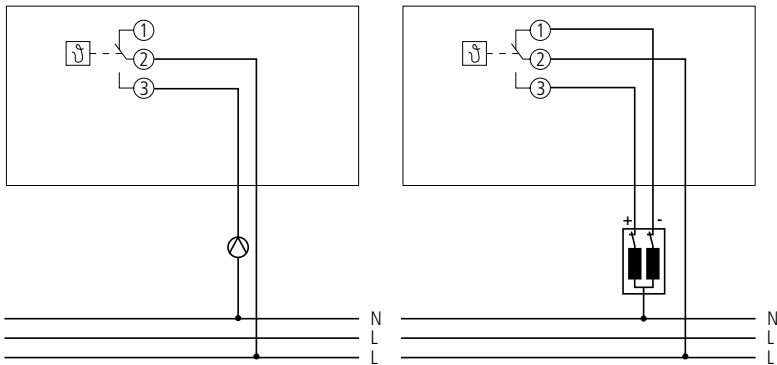
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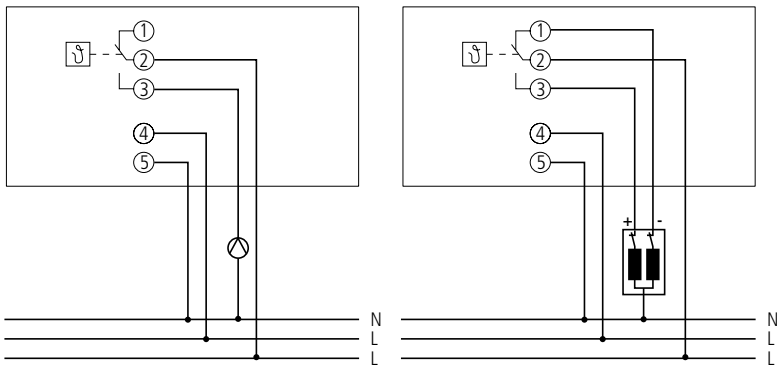
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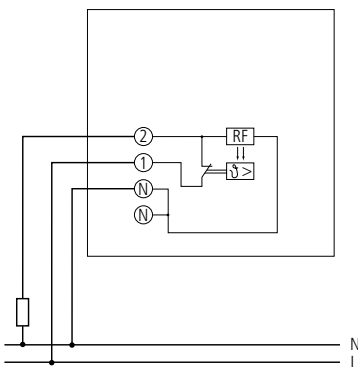
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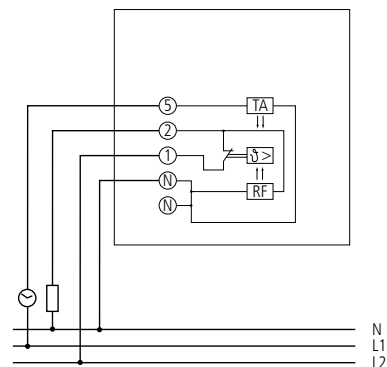
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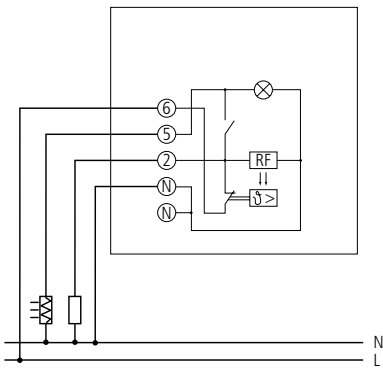
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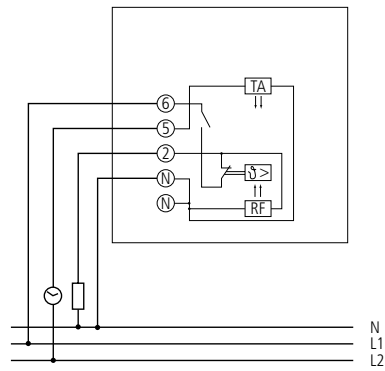
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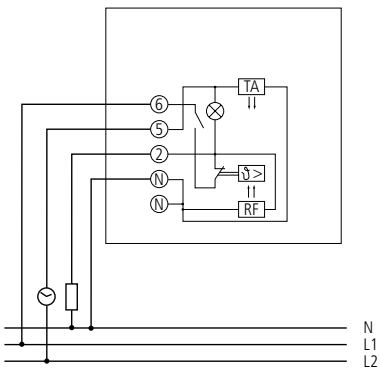
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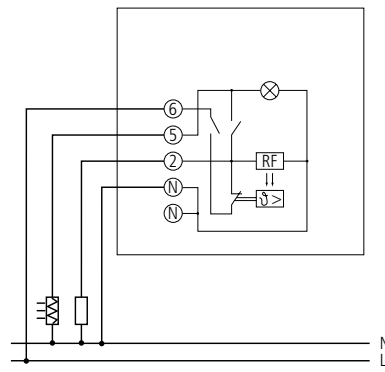
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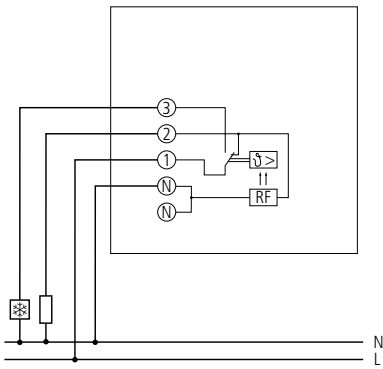
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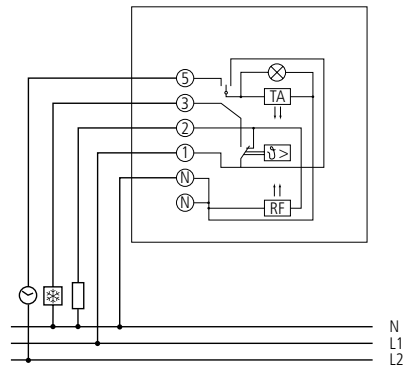
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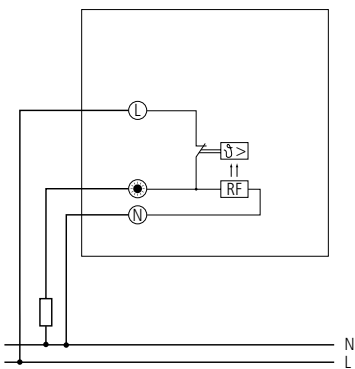
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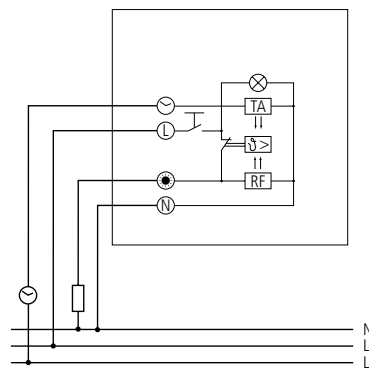
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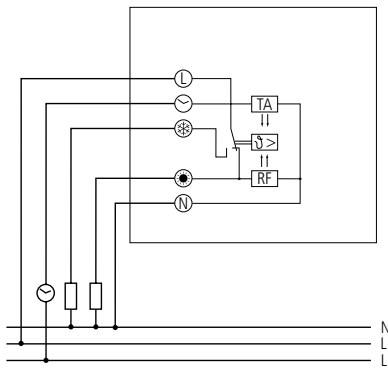
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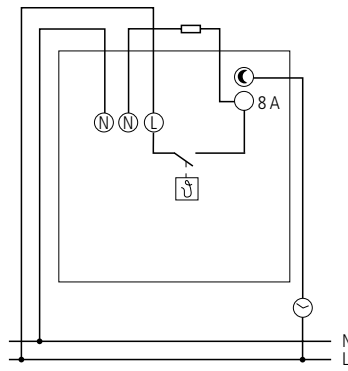
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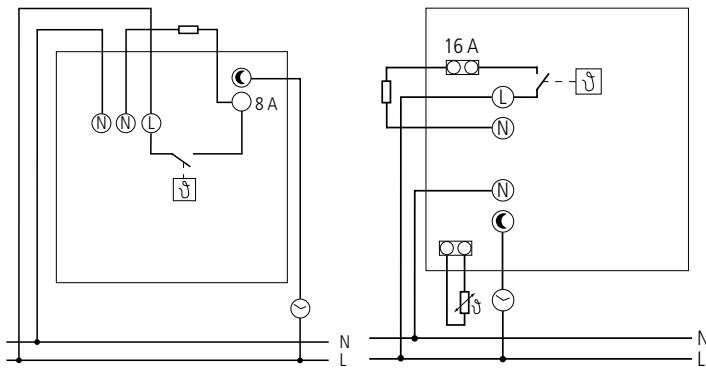
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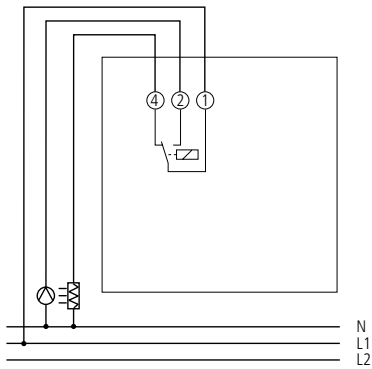
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0700130	SELEKTA 070 top3 UP	30	-
1010200	theLuxa R180 WH	48	-
1010201	theLuxa R180 BK	48	-
1010205	theLuxa E180 WH	12	-
1010206	theLuxa E180 BK	12	-
1010500	theLuxa S150 WH	24	-
1010501	theLuxa S150 BK	24	-
1010505	theLuxa S180 WH	24	-
1010506	theLuxa S180 BK	24	-
1010510	theLuxa S360 WH	24	-
1010511	theLuxa S360 BK	24	-
1010605	theLuxa P220 WH	18	-
1010606	theLuxa P220 BK	18	-
1010610	theLuxa P300 WH	18	-
1019610	theLuxa P300 KNX WH	18	-
1019611	theLuxa P300 KNX BK	18	-
1020600	theLeda S8-100L WH	24	-
1020601	theLeda S8-100L BK	24	-
1020602	theLeda S17-100L WH	16	-
1020603	theLeda S17-100L BK	16	-
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	-
1020698	theLeda B100L W WH	6	-
1020699	theLeda B100L W 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	-
1020800	theLeda S8-100 WH	24	-
1020801	theLeda S8-100 BK	24	-
1020802	theLeda S17-100 WH	16	-
1020803	theLeda S17-100 BK	16	16
1020901	theLeda D S AL	16	-
1020902	theLeda D SU AL	16	-
1020903	theLeda D U AL	16	-
1020904	theLeda D UD AL	8	-
1020905	theLeda D B AL	6	-
1020906	theLeda D B plus AL	4	-
1020907	theLeda D B plus S AL	4	-
1030031	LUXA 103-200 T	60	-
1030045	LUXA 103-100 UA WH	24	-
1030052	LUXA 103 S360-100-12 DE-UP WH	64	-
1030053	LUXA 103 S360-101-12 DE-UP WH	64	-
1030072	LUXA 103 S360-100-28 DE-UP WH	64	-
1030540	theMova S360-100 FLAT DE WH	72	-

Art.-No.	Type	Unit 1	Unit 2
1030545	theMova S360-101 FLAT DE WH	72	-
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	-
1030565	theMova S360-101 DE WH	72	-
1030600	theMova P360-100 UP WH	60	-
1039052	LUXA 103 S360-12 KNX UP WH	64	-
1039072	LUXA 103 S360-28 KNX UP	64	-
1260901	LUNA 126 star E	40	-
1420721	BZ 142-1	10	-
1600001	SYN 160 a	10	-
1700130	SELEKTA 170 top3	100	-
1710330	SELEKTA 171 top3 RC	100	-
1720130	SELEKTA 172 top3	100	-
1720330	SELEKTA 172 top3 RC	100	-
1740130	SELEKTA 174 top3	100	-
1800001	SUL 180 a	10	-
1891801	SUL 189 s 110V	5	-
1900001	MEM 190 a	10	-
2010300	thePassa P360-101 UP WH	60	-
2010330	thePassa P360 Slave UP WH	60	-
2010340	thePassa P360-221 DALI UP WH	60	-
2010390	thePassa P360 DALI-2 S UP WH	60	-
2019300	thePassa P360 KNX UP WH	60	-
2030190	PlanoSpot 360 DALI-2 S DE WH	72	-
2039100	PlanoSpot 360 KNX DE WH	72	-
2060650	theMura S180-100 UP WH	60	-
2060655	theMura S180-101 UP WH	60	-
2060658	theMura S180-101 2.20 UP WH	60	-
2060750	theMura S180-100 B UP	60	-
2060755	theMura S180-101 B UP	60	-
2060760	theMura S180 Slave B UP	60	-
2060770	theMura S180-100 2W B UP	60	-
2069650	theMura S180 KNX UP WH	60	-
2069655	theMura P180 KNX UP WH	60	-
2069658	theMura P180 2.20 KNX UP WH	60	-
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	-
2080025	theRonda P360-101 M UP WH	60	-
2080030	theRonda P360 Slave UP WH	60	-
2080040	theRonda P360-110 DALI UP WH	60	-
2080045	theRonda P360-330 DALI UP WH	60	-
2080090	theRonda P360 DALI-2 S UP WH	60	-
2080095	theRonda P360 DALI-2 HCL UP WH	60	-
2080520	theRonda S360-100 UP WH	60	-
2080525	theRonda S360-101 UP WH	60	-
2080530	theRonda S360 Slave UP WH	60	-
2080540	theRonda S360-100 FLAT DE WH	72	-

Art.-No.	Type	Unit 1	Unit 2
2080545	theRonda S360-101 FLAT DE WH	72	-
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	-
2099200	thePiccola P360 KNX DE WH	48	-
2690008	SYN 269 h	5	-
3120120	OKTO S12-230	10	60
3120122	OKTO S22-230	10	60
4800350	LUXORliving BI180 WH	60	-
4800355	LUXORliving BI360 WH	64	-
4930279	DMB 1 T KNX	40	-
4969238	iON 108 KNX	50	-
5320001	DIMAX 532 plus	40	-
5340001	DIMAX 534 plus	5	-
5400130	DIMAX 540 plus B	242	-
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	-
7030001	RAMSES 703	10	-
7050001	RAMSES 705	10	-
7060001	RAMSES 706	10	-
7080001	RAMSES 708	10	-
7090001	RAMSES 709	10	-
7150002	SOTHS 715	5	-
9070504	Surface frame LUXA 103-200	90	-
9070531	QuickSafe	12	-
9070754	Adapter frame 45A BJRE WH	126	-
9070760	Motion module theLeda B WH	36	-
9070761	Motion module theLeda B BK	36	-
9070762	Light module theLeda B WH	64	-
9070763	Light module theLeda B BK	64	-
9070765	Spike theLeda D B	12	-
9070788	Adapter frame 45A BJBSI WH	126	-
9070789	Adapter frame 45A JAS WH	126	-
9070790	Adapter frame 45A MMP WH	126	-
9070791	Adapter frame 45A GS WH	126	-
9070792	Adapter frame 45A BS WH	126	-
9070800	Motion module RC theLeda B WH	36	-
9070801	Motion module theLeda B BK	36	-
9070806	4-way push button module	63	-
9070819	Surface frame 100A WH	48	-
9070848	US 1 KNX	48	-
9070902	Corner angle theLuxa S WH	96	-
9070903	Corner angle theLuxa S BK	96	-
9070904	Corner angle theLuxa P WH	96	-
9070905	Corner angle theLuxa P BK	96	-
9070906	Spacer theLuxa S WH	156	-
9070907	Spacer theLuxa S BK	156	-
9070908	Spacer theLuxa P WH	168	-
9070909	Spacer theLuxa P BK	168	-
9070910	theSenda P	80	-
9070911	theSenda S	80	-
9070969	Corner angle 10 WH	96	-
9070970	Corner angle 10 AL	96	-
9070971	Spacer 10 WH	168	-
9070972	Spacer 10 AL	168	-
9070974	Corner angle theLuxa E WH	100	-

Art.-No.	Type	Unit 1	Unit 2
9070975	Corner angle theLuxa E BK	100	-
9070985	theSenda B	80	-
9070986	Surface frame LUXA 103-100 U	54	-
9070987	Corner angle 10 BK	96	-
9070988	Spacer 10 BK	168	-
9080001	Adapter frame 45A BJRE CL	126	-
9080002	Adapter frame 45A BJBA CL	126	-
9080003	Adapter frame 45A JUAS CL	126	-
9080004	Adapter frame 45A MEMP CL	126	-
9080005	Adapter frame 45A GIST CL	126	-
9080006	Adapter frame 45A BESI CL	126	-



## Theben AG

### Discontinued models

Art.-No.	Type	Art.-No.	Type
Discontinued model		Successor	
2000050	PresenceLight 180	2060658	theMura S180-101 2.20 UP WH
2009050	PresenceLight 180B-KNX WH	2069658	theMura P180 2.20 KNX UP WH
3450731	TM 345 M	3450733	TM 345 MF
4910273	SMG 2 S KNX	4940310	SM 4 KNX
4910274	SME 2 S KNX	4940310	SM 4 KNX
7020001	RAMSES 702	7030001	RAMSES 703
7040001	RAMSES 704	7060001	RAMSES 706
7070001	RAMSES 707	7060001	RAMSES 706
7140002	RAMSES 714	7140016	RAMSES 714 A
7210030	RAMSES 721	7220030	RAMSES 722
8119132	RAMSES 811 top2	8119200	RAMSES 811 top3
8120132	RAMSES 812 top2	8120200	RAMSES 812 top3
8139501	RAMSES 813 top2 HF Set 1	8139201	RAMSES 813 top3 HF Set 1
8139503	RAMSES 813 top2 HF Set A	8139203	RAMSES 813 top3 HF Set A
8169132	RAMSES 816 top2 OT	8509200	RAMSES 850 top3 OT
8319132	RAMSES 831 top2	8119200	RAMSES 811 top3
8320132	RAMSES 832 top2	8120200	RAMSES 812 top3
8339501	RAMSES 833 top2 HF Set 1	8139201	RAMSES 813 top3 HF Set 1
8339502	RAMSES 833 top2 HF Set 2	8139201	RAMSES 813 top3 HF Set 1
8569132	RAMSES 856 top2 OT	8509200	RAMSES 850 top3 OT
9070371	Outdoor temp. sensor RAMSES	No successor	
9070463	Outdoor temperature sensor RAMSES	No successor	
9070601	Center plate RAMSES 746	No successor	
9070603	Single frame RAMSES 74x	No successor	
9070605	Plug-in base RAMSES	No successor	
9070929	DALI-Gateway KNX plus	4940303	DALI-Gateway P64 KNX

## 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 approximate 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 performance 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.



# Theben AG

## General Delivery and Sales Conditions

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 reinterpreted 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.

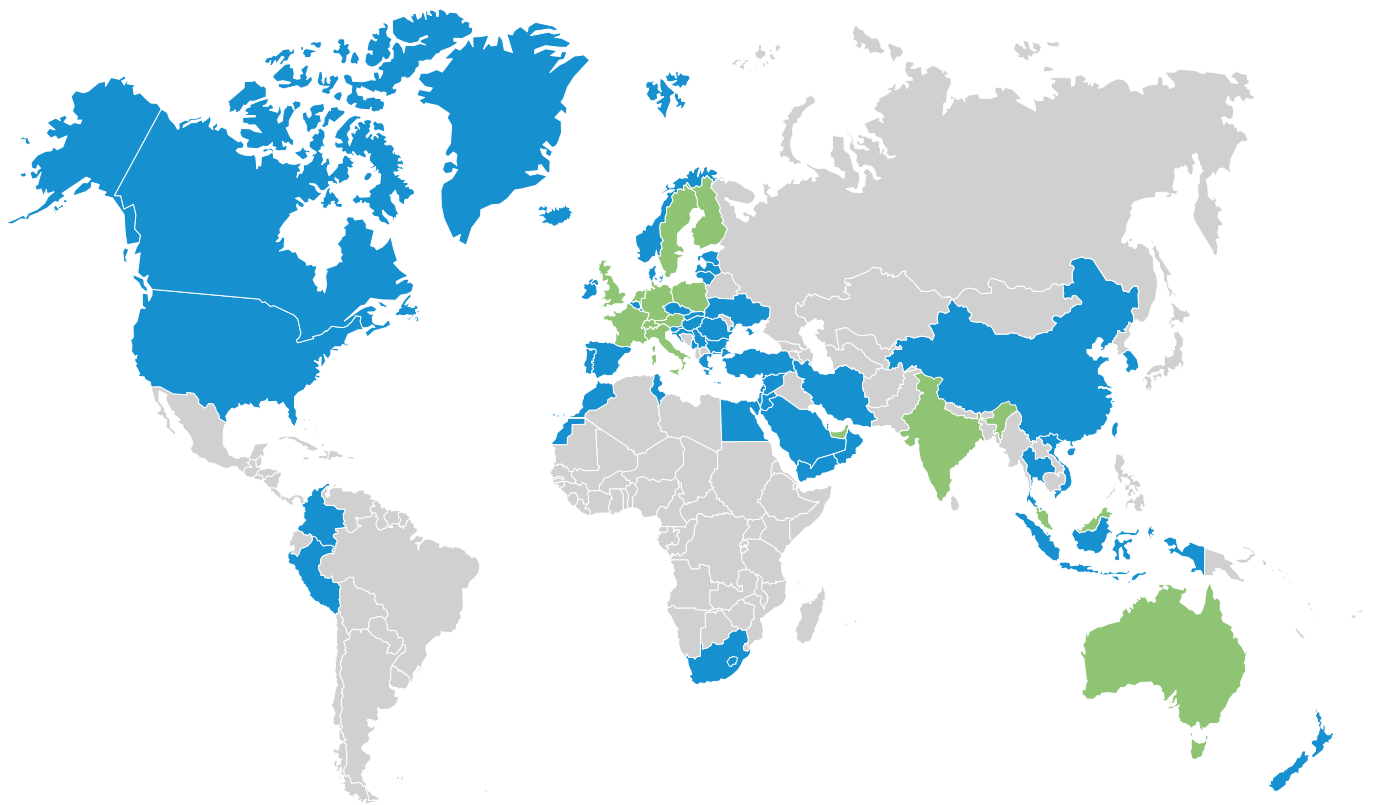
4. We shall store the purchaser's data for the purposes of the contractual relationship.





# Theben Worldwide

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[www.theben.de/contact-en-gb/distribution](http://www.theben.de/contact-en-gb/distribution)

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and improvements.

