



Designer Vertical Blinds | Glass Roof and Conservatory Awnings

## **markilux Optional Accessories**

Accessories, Control Mechanisms, Heating and Lighting.

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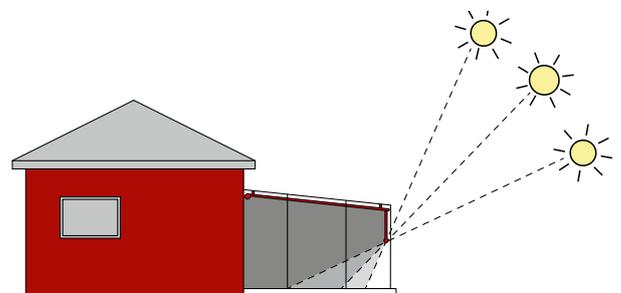
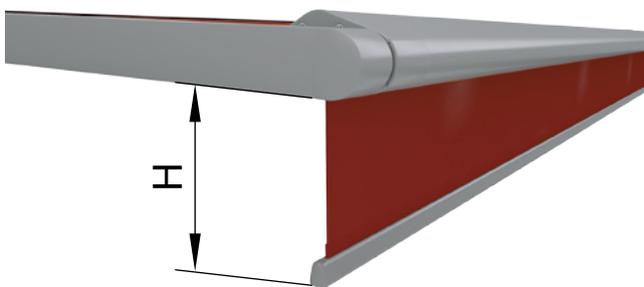
## markilux Shadeplus / Drop Valance

The additional shading feature that gives protection against low-lying sun



With a shadeplus – the awning within an awning – you can adjust the shade to your liking, regardless of the position of the sun. The shadeplus fabric cover is weighted with a bottom profile. With this perfect sun protection feature which provides privacy at the same time, you can create a secure and shaded area outdoors. During the day it excludes the sun and in the evening it keeps the cool air at bay.

### Shadeplus drop



The Shadeplus drop H is measured from the bottom edge of the front profile to the bottom edge of the drop valance profile. Due to tolerances in fabric thickness, the actual drop may be shorter than the nominal drop by up to 5 cm. Retract your shadeplus fabric cover immediately if it becomes windy as it is not very stable in windy conditions.

### N.B!

- For safety reasons the shadeplus must be retracted before the awning is operated.
- Only available in plain seamless fabrics (oversized, fabric width > 120 cm) or in plains with a horizontal joint (fabric width 120 cm).

Detailed explanations of the maximum drop, operation type and shadeplus covers can be found in the chapter corresponding to the awning model in question.

# markilux infrared heater



### Special features

- Soft start function with reduced start-up current
- Cooling fins on the back prevent excessive heating of the mounting surface
- Brackets for wall and top fixture, as well as fixture to markilux awnings, see “Fixture and accessories for markilux infrared heaters, LED-Spotline, spotline halogen and E-box”
- The asymmetrical reflector gives optimum heat distribution
- The infrared halogen lamp with Ultra Low Glare heating tube technology ensures minimum glare and a pleasant light temperature
- Minimum installation height 1.8 m

### Standard features

- All infrared heaters include a 1.8 m power supply cable and a coupling plug (Hirschmann)
- 2 brackets are required for all fixture types

Always state the type of fixture required when ordering

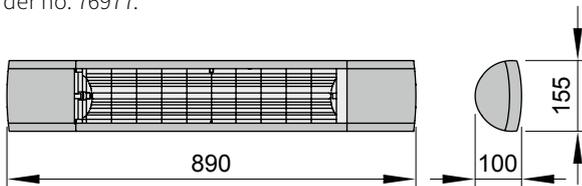
markilux infrared heaters offer an optimum of warmth with pleasant infrared heat – conducive to a comfortable outdoor living experience.

The low glare technology converts the the power input into a maximum of heat output. Infrared heaters are perfect leisure time companions for the garden, terrace, balcony and under an awning. They are efficient, energy-saving and create a cosy atmosphere at the touch of a button.

### Overview of dimensions

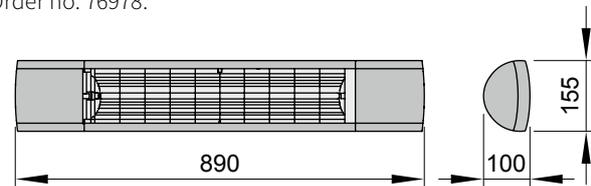
Infrared heater 2500 Watt without radio receiver

Order no. 76977.

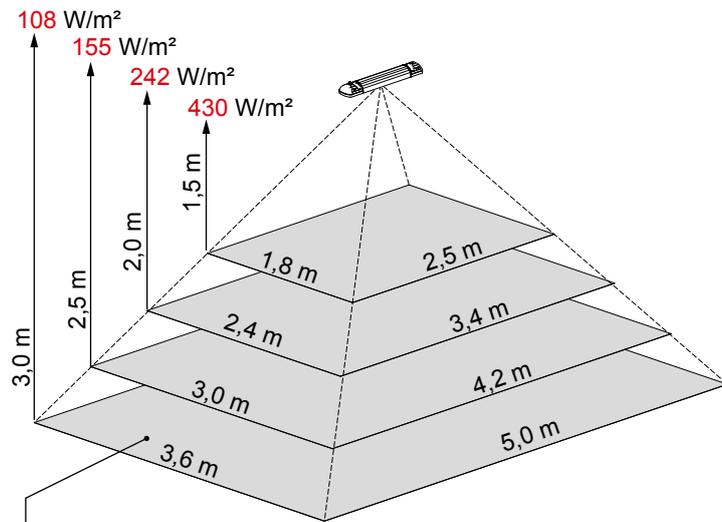


Infrared heater 2500 W, can be dimmed in 3 stages, with integrated radio receiver 868 MHz io

Order no. 76978.



### The maximum radiation intensity of the Infrared heater 2500 W



Radiation core zone (50 % of the central radiation)

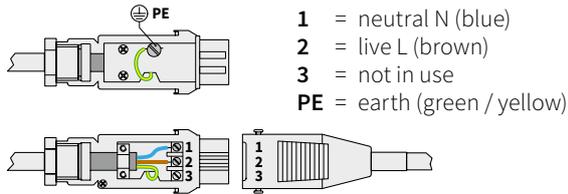
dimensions in mm

# markilux infrared heater

## Technical specification

Power supply	230 v, 50 Hz, 16 A slow-burn fuse
Wiring cross section	H05SS-F3G 3 × 1.5 mm <sup>2</sup>
Power output (per heater)	2500 Watt
Length × depth × height (2500 Watt)	890 mm × 100 mm × 155 mm

## Power supply connection coupling plug (Hirschmann)



## Housing colours

	standard	optional
traffic white RAL 9016	✓	—
metallic aluminium RAL 9006	✓	—
grey brown· similar to RAL 8019	✓	—
off-white textured finish 5233 <sup>1)</sup>	✓	—
stone grey metallic, 5215 <sup>1)</sup>	✓	—
anthracite metallic, 5204 <sup>1)</sup>	✓	—
Havana brown textured finish, 5229 <sup>1)</sup>	✓	—
Non-standard colour	—	✓

## 1) textured finish

Bespoke frame colours incur a surcharge – metallic, finely textured, pearl and matt finishes as well as other colour ranges (DB, Tiger etc.) on request. All frame colours are available at a surcharge with enhanced corrosion protection. Colours may differ slightly from those depicted in both hue and finish.

## Optional infrared heater accessories

### For use with the infrared heater 2500 W



External RTS radio receiver with dimmer function (3 stage) in 433 MHz technology without hand-held remote control  
Order no. 8272227



RTS hand-held radio remote control in 433 MHz technology  
Order no. 8272130 (1 channel) or 8272131 (4 channel)

### For use with the infrared heater 2500 W with 3 stage dimmer and integrated radio-controlled receiver in 868 MHz technology



Hand-held radio remote control markilux io-1 designcontrol (1 channel) in 868 MHz technology  
Order no. 8272087



Hand-held radio remote control markilux io-5 designcontrol (5 channel) in 868 MHz technology  
Order no. 8272099

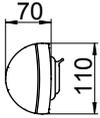
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# markilux LED-Spotline



Always state the type of fixture required when ordering

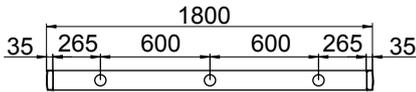
### Overview of dimensions



### 3 LED spotlights

2 brackets

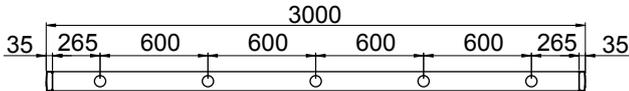
Order no. 71865. without radio receiver  
71868. in io radio technology, 868 MHz



### 5 LED spotlights

3 brackets

Order no. 71866. without radio receiver  
71869. in io radio technology, 868 MHz



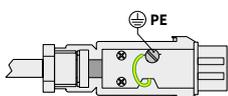
### Technical specification of the LED-Spots

Power supply	230 V, 50 Hz
Power output (per LED-spot)	3 Watts
Wiring cross section	3 × 1.0 mm <sup>2</sup>
Energy efficiency class	A
Light intensity range	0–100 %
Colour temperature	3200 Kelvin

### Technical specification of the radio remote control

Transmission frequency	868 MHz
Battery	CR 2430, 3 Volt

### Power supply connection coupling plug (Hirschmann)



- 1 = neutral N (blue)
- 2 = live L (brown)
- 3 = not in use
- PE = earth (green / yellow)



### Special features

- With pivoting LED spotlights in a powder-coated aluminium housing
- Simple, variable fixture to the wall or ceiling using T-brackets or optionally via additional brackets to the awning, see “Fixtures and accessories for markilux infrared heaters, LED-Spotline, spotline halogen and E-box”
- A radio receiver and a hand-held radio remote control markilux io (optional) provide convenient operation at the push of a button. The hand-held remote control can be used to dim the brightness
- LED lamp life approximately 20,000 hours

### Optional accessories



Hand-held radio remote control markilux io-1 designcontrol (1 channel) in 868 MHz technology  
Order no. 8272087



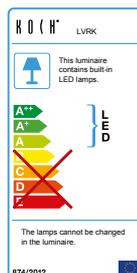
Hand-held radio remote control markilux io-5 designcontrol (5 channel) in 868 MHz technology  
Order no. 8272099

### Housing colours

	standard	optional
traffic white RAL 9016	✓	—
metallic aluminium RAL 9006	✓	—
grey brown· similar to RAL 8019	✓	—
off-white textured finish 5233 <sup>1)</sup>	✓	—
stone grey metallic, 5215 <sup>1)</sup>	✓	—
anthracite metallic, 5204 <sup>1)</sup>	✓	—
Havana brown textured finish, 5229 <sup>1)</sup>	✓	—
Non-standard colour	—	✓

### 1) textured finish

Bespoke frame colours incur a surcharge – metallic, finely textured, pearl and matt finishes as well as other colour ranges (DB, Tiger etc.) on request. All frame colours are available at a surcharge with enhanced corrosion protection. Colours may differ slightly from those depicted in both hue and finish.



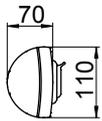
dimensions in mm

# markilux E-box

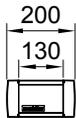


Always state the type of fixture required when ordering

### Overview of dimensions

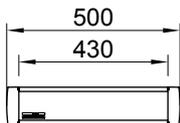


#### E-box K



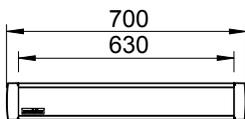
Order number 71849.  
1 bracket

#### E-box M



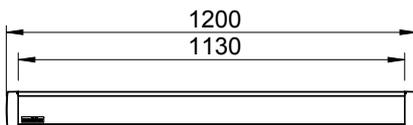
Order number 71850.  
2 brackets

#### E-box G



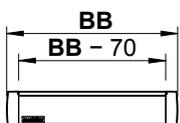
Order number 71873.  
2 brackets

#### E-box L



Order number 71874.  
2 brackets

#### E-box I



Order no. 71851.  
up to 2010 mm 2 brackets  
up to 2010 mm 3 brackets  
up to 4010 mm 4 brackets  
up to 6010 mm 5 brackets

BB = Order width

### Special features

Ensures safe and easy electrical installation.  
Electrical equipment such as coupling plugs can be installed in a visually attractive way using the markilux E-box. Simple, variable fixture to the wall or ceiling using T-brackets or optionally via additional brackets to the awning, see "Fixtures and accessories for markilux infrared heaters, LED-Spotline, spotline halogen and E-box".

The E-box is available in five models:

- **E-box K**  
can accommodate a single plug connection (e.g. Hirschmann plug). Width = 200 mm.
- **E-box M**  
can accommodate a coupling plug with external receiver or for the installation of awnings with lighting and an additional connection for a shadeplus. Width = 500 mm.
- **E-box G**  
can accommodate coupling plugs and accessories for the markilux pergola 110 tracfix / 210 tracfix, 779 / 779 tracfix and 879 / 879 tracfix. Width = 700 mm.
- **E-box L**  
can accommodate couplings plugs and accessories for the markilux 779 / 779 tracfix. Width = 1200 mm.
- **E-box I**  
in a bespoke width to order.

### Housing colours

	standard	optional
traffic white RAL 9016	✓	—
metallic aluminium RAL 9006	✓	—
grey brown similar to RAL 8019	✓	—
off-white textured finish 5233 <sup>1)</sup>	✓	—
stone grey metallic, 5215 <sup>1)</sup>	✓	—
anthracite metallic, 5204 <sup>1)</sup>	✓	—
Havana brown textured finish, 5229 <sup>1)</sup>	✓	—
Non-standard colour	—	✓

### 1) textured finish

Bespoke frame colours at a surcharge – metallic, finely textured, pearl and matt finishes as well as other colour ranges (DB, Tiger etc.) on request. All frame colours are available at a surcharge with enhanced corrosion protection. Colours may differ slightly from those depicted in both hue and finish.

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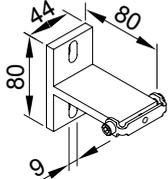
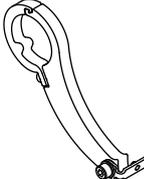
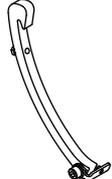
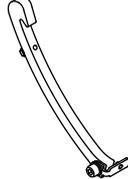
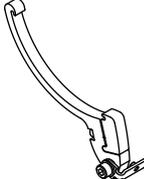
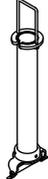
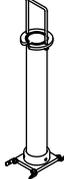
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# Fixtures and accessories

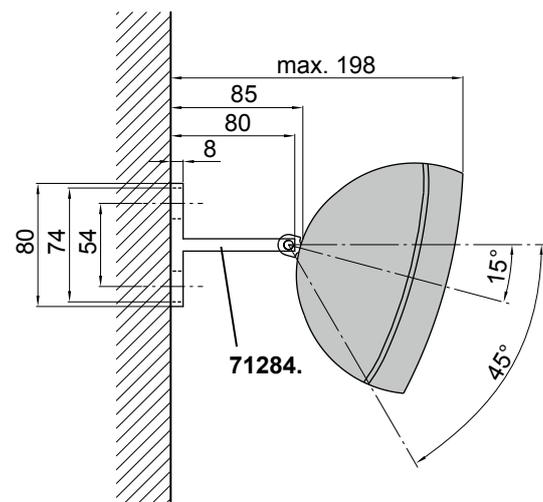
for the markilux infrared heater, LED-Spotline, spotline halogen and E-box

 <p>T-bracket for fixture to both wall and ceiling</p> <p><b>71284.</b></p>	 <p>torque bar fixture round Ø 50 mm</p> <p>markilux 1600 markilux 1650</p> <p><b>76972.</b></p>	 <p>cassette bracket</p> <p>markilux 5010</p> <p><b>76974.</b></p>
 <p>cassette bracket</p> <p>markilux 6000</p> <p><b>76975.</b></p>	 <p>cassette bracket</p> <p>markilux pergola</p> <p><b>76973.</b></p>	 <p>cross-beam bracket for 1 infrared heater, LED-Spotline, spotline halogen</p> <p>markilux syncra</p> <p><b>72083.</b></p>
 <p>cross-beam bracket for 2 infrared heaters, LED-Spotline, spotline halogen</p> <p>markilux syncra</p> <p><b>72084.</b></p>	<p>For an overview of the dimensions of all fixture types and brackets, please refer to the chapter "markilux Special Accessories" in the manual "Designer Awnings for Patio and Balcony"</p>	

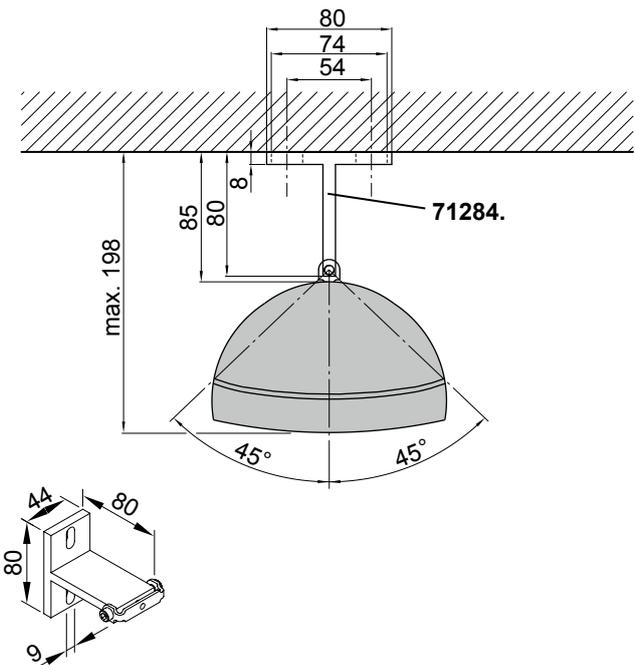
## Fixture types

using the markilux infrared heater by way of example

Face fixture



Top fixture



VB = adjustment range

dimensions in mm

## markilux silentec

Innovative and quiet



Add even more comfort to the markilux 8800. Thanks to the installation of the special motor with acoustic insulation, the noise produced by the awning's motor is much less than that of a hard-wired or radio-controlled motor. The markilux silentec motor can also be operated via radio control (optional) with an additional external radio receiver RTS plug (order no. 8272148).

Only single awnings can be fitted with this motor technology.

For other specification limitations and possibilities such as "Dimensions and configuration options" please consult the section pertaining to the appropriate markilux model.

The markilux silentec motor cannot be retro-fitted to existing awnings.

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01 **io Radio Controls**

Radio remote controls and radio receivers



**Programming instructions for equipment using io radio control technology 868 MHz**

These can be downloaded from the specialist dealer area in digital format under the document type “What to do if ...?” at markilux.com.

Order no. 7061511



**Hand-held remote control – markilux io-1 designcontrol (1 channel)**

The beautifully designed 1 channel hand-held radio remote control io-1 designcontrol for the convenient control of an awning, an infrared heater or lighting in 868 MHz radio technology. Features an additional “my” function to save your favourite awning position or setting.

Order no. 8272087



**Hand-held remote control – markilux io-5 designcontrol (5 channel)**

Universal hand-held transmitter with integrated Auto/Manu function for all channels. Lighting and heating radio receivers with dimmer function can be conveniently controlled using the scroll wheel. Equipped with an additional “my” function to save your favourite awning position or setting.

Order number 8272099



**Radio remote control wall switch – Smoove io Pure Shine (1 channel)**

The touch-sensitive radio remote control wall switch Smoove io Pure Shine (1 channel) for the purely manual control of an awning. Equipped with an additional “my” function to save your favourite awning position.

Order no. 8272189

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**Radio remote control wall switch – Smoove A/M io Pure Shine (1 channel)**

The touch-sensitive remote control wall switch Smoove A/M io Pure Shine (1 channel) for plain and simple awning operation. Equipped with an additional “my” function to save your favourite awning position. The sliding switch makes it easy to remove an awning from a central control system (group) and manually operate it using the up, down and stop buttons.

Order no. 8271190

## io Radio Controls

### Radio remote controls and radio receivers



#### **Radio remote control wall switch Smoove Uno A/M io Pure Shine (1 channel)**

The touch-sensitive radio remote control wall switch Smoove Uno A/M io Pure Shine (1 channel) for plain and simple control of an awning with hard-wired motor. This control unit is intended for retrofitting to hard-wired motors. Equipped with an additional “my” function to save your favourite awning position. The sliding switch makes it easy to remove an awning from the central control system (group) and manually operate it using the up, down and stop buttons.

Order no. 8271178



#### **Awning radio receiver – Slim Plug io**

With this radio receiver, hard-wired motors can be controlled using io radio technology (can also be used in bi-directional control systems such as the Connexoon or TaHoma.)

Order no. 8271254



#### **Radio lighting receiver – Lighting Receiver Variation io**

Enables lighting to be switched on and off and dimmed. It can also be used in conjunction with bi-directional control systems such as the Connexoon or TaHoma, which will indicate the brightness level in symbol form on the display.

Order no. 8272242



#### **External radio receiver – Plug Receiver io, as an in-line socket adapter**

The external radio Plug Receiver io for the leisurely switching on and off of lamps, radios, TVs and other domestic appliances (not suitable for awning motors).

Order no. 8272195, white

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## io Radio Controls

### Control box – Somfy io Connexoon Terrace, for controlling io products by App



Offers control of Somfy products and awnings in io technology for a predetermined domain (specified in the appropriate App) using a secure means of access via smartphone or tablet (iOS, Android), including a mobile.

- a maximum of 40 receivers can be controlled
- can be connected to io wind and light sensors
- weather data can be retrieved
- a music player can be integrated
- io-controlled patio lighting can be switched on / off and dimmed
- a maximum of 4 patio scenarios can be programmed using the photo snapshot function
- program products with ease using the programming button, similar to the RTS radio technology from Somfy
- compatible with Philips HUE lighting systems
- more information can be found at <https://www.somfy.com.lb/en-lb/products/1811429/connexoon-terrace>

### Somfy control box – io Connexoon Smart Home, for the patio

Order no. 8272277, white



### io radio technology sensors and accessories for the Connexoon Terrace

#### Radio light sensor – Sunis WireFree II io

Battery operated radio light sensor for awnings with io radio-controlled motor for variable fixture to the façade without unsightly cabling. The Sunis WireFree II io is used with uni-directional io radio remote controls without status response such as the radio remote control wall switch, Smoove A/M io Pure Shine, or the hand-held remote control, markilux io-5 designcontrol, or with bi-directional io radio remote controls with status response, such as the TaHoma and Connexoon Terrace io.

Order no. 8272086



### io radio technology sensors

#### Radio wind sensor – Eolis WireFree io

The battery operated radio wind sensor Eolis WireFree io can be directly mounted on the façade without unsightly cabling. The wind threshold value can be set directly on the sensor.

Order no. 8272193, white



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## RTS Radio Controls

Radio remote controls and radio receivers



### Programming instructions for equipment using RTS radio technology 433 MHz

These can be downloaded from the specialist dealer area in digital format under the document type “What to do if ...?” at markilux.com.

Order no. 7061444



### markilux RTS hand-held remote control (1 channel)

The markilux hand-held remote control (1 channel) allows you to operate your awning comfortably at the touch of a button. The awning can be controlled using the up/down and stop buttons. The attractive shape and ergonomic design characterise this elegant and easily operated hand-held remote control.

Order no. 8272130



### markilux RTS hand-held remote control (4 channel)

At the touch of a button, this markilux radio remote control (4 channel) not only allows you to control the awning itself but also the light and wind sensor and the dimmer function on awnings with lighting. One or more awnings can be controlled using the up/down and stop buttons. Individual channels or all channels at the same time can be addressed using the channel selection button.

Order no. 8272131



### remote control – Smoove Pure Shine RTS (1 channel)

The touch-sensitive remote control wall switch Smoove Pure Shine (1 channel) offers simple control of the awning. Equipped with an additional “my” function to save your favourite awning position. Push button operation, including frame.

Order no. 8272235



### External radio receiver – Universal Slim Receiver RTS Plug, with in-line (Hirschmann) plug connections

The easy way to automate an awning with a hard-wired motor or provide an automatic radio-controlled option (light, wind, rain sensor) at a later date. Quick and easy installation between the motor and the power supply cable (via Hirschmann coupling plug connections). The following is then possible:

- individual operation, i.e. a single radio remote control operates a single radio receiver
- group operation, i.e. a single radio remote control operates more than one radio receiver
- multiple operation, i.e. more than one radio remote control operates a single radio receiver

Order no. 8272148

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## RTS Radio Controls

Radio remote controls and radio receivers



### External radio receiver – Heating Mod/Var Receiver RTS for 2500 W infrared heaters

The dimmable, external radio receiver for 2500 Watt infrared heaters.

The power output of the heater can be regulated in three stages: 33%, 66% and 100%.

Order no. 8272227



### External radio receiver – Centralis Indoor RTS for awnings with lighting

The external lighting receiver for interior installation in a flush-fitted wall box, with a diameter of 60 mm, without dimmer function.

Order number 8272102

## RTS Radio Controls

RTS Radio Technology Somfy



### Radio light and wind sensor – Soliris Sensor RTS, for radio-controlled motors

Depending on the prevailing conditions with regard to the wind and sun, a markilux awning will be automatically extended or retracted. The wind speed and lux values required to trigger this are set directly on the sensor. The Soliris Sensor RTS transmits the signals by radio wave. This does away with all the wiring to the central control unit and the motor drive. The automatic light sensor function can be manually activated or deactivated via radio remote control.

Order number 8272089



### Radio light and wind sensor – Soliris Sensor RTS, with connection for rain sensor

Depending on the prevailing conditions with regard to the wind and sun, a markilux awning will be automatically extended or retracted. The wind speed and lux sensor values required to trigger this are set directly on the sensor. In combination with a suitable rain sensor (order no. 8272065), the awning will retract if it starts to rain. The Soliris Sensor RTS transmits the signals by radio wave. This does away with all the wiring to the central control unit and the motor drive. The automatic light sensor function can be manually activated or deactivated via radio remote control.

Order number 8272127



### Rain sensor – Ondeis 230 V AC

To be used in combination with wireless light and wind sensors with a connection for a rain sensor

- fast and precise sensor reaction as a result of more accurate measurement of precipitation
- integrated, self-regulating heater function
- quick and problem-free installation
- simple installation, delivery includes sensor and power supply cable (power cables are white, 2 strand and UV resistant)

Order no. 8272065



### Wireless wind sensor – Eolis Sensor RTS

Keeps a constant eye on the wind speed: as soon as the individually pre-set threshold value is exceeded, the sensor retracts the awning. Radio-controlled operation makes wiring to the operating location and the motor drive unnecessary. Only a 230 V power supply cable is required.

Order number 8272090



### Radio light sensor – Sunis WireFree RTS

Solar cell operated sun sensor – which can be fitted anywhere on the façade. Intended for awnings with 433 MHz RTS radio-controlled motors, it does not need to be wired into the mains. Built-in solar cells supply the unit with power. Up to three light sensors can be linked to any one radio-controlled motor. But one Sunis light sensor can also control a number of radio-controlled motors.

Order no. 8272141

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## 01 Automatic Controls, Switches and Accessories for Hard-wired Motors

### Miscellaneous electrical accessories



#### Somfy universal set-up switch

For programming and setting the limit positions of 230 V motors, for radio-controlled or hard-wired WT motors and also for Becker and Elero motors

Order no. 8271084



#### Protective box for a (Hirschmann) coupling plug

Protective box to safely tidy away the coupling plug near the awning

Dimensions approx. 45 mm x 35 mm x 175 mm (width x height x length)

Order no. 8271044 white

Order no. 8271043 black

Order no. 8271045 light grey



#### Dehn voltage surge protector – Cord R 3P 275

Voltage surge protection for solar protection systems according to DIN VDE 0100-443 and 543 with in-line (Hirschmann) plug connections.

In October 2016 it became legally binding in Germany to take measures with regard to the prevention of voltage surges in residential buildings (please check the regulations in your country or region). The supply and control cabling of your awning must therefore be wired through a Dehn surge protection unit before it joins the interior wiring circuits, in order to prevent damage as a result of eventual voltage surges.

Maximum amperage 10 A (max. ~2300 W)

Order no. 8271252

### Motor control equipment



#### Control mechanism for individual motors – Centralis Uno IB (small group control mechanism)

Can be used to control a group of awnings when simultaneous extension and retraction of several awnings is required. A motor control device Centralis Uno IB is required for every drive unit that is to be controlled. The sliding switch makes it simple to remove an awning from the central control system (group). 2 intermediate positions can be programmed. Warning signals are displayed via LED (e.g. awning retracted because the wind speed is too high). Supplied without a surface fixture box.

Order no. 8272085



#### Cut-off relay TR4-AP-230

Enables safe parallel switching of up to 4 awnings. If several awnings are connected in parallel without a cut-off relay, reverse current flow can occur when the awnings are being extended and retracted, which may lead to malfunction and damage to the motors.

Surface fixture, for the simultaneous control of up to 4 motor drives with mechanical or electronic limit switching.

Order no. 8272187

## Automatic Controls, Switches and Accessories for Hard-wired Motors

### Sensors



#### Light and wind sensor – Soliris Uno

Depending on the prevailing conditions with regard to the wind and sun, a markilux awning will be automatically extended or retracted. The wind speed and lux values required to trigger this are set directly on the sensor. There is a sliding switch which makes it easy to deactivate the sun sensor. The awning can then be controlled manually. Supplied without a surface fixture box.

Order no. 8272081



#### Light and wind sensor – Soliris IB

Depending on the prevailing conditions with regard to the wind and sun, a markilux awning will be automatically extended or retracted. The wind speed and lux values required to trigger this are set directly on the sensor. There is a sliding switch which makes it easy to deactivate the sun sensor. The Soliris IB is designed to work with a group control unit (each drive unit requires an additional motor control mechanism, Centralis Uno IB), whereby each individual control mechanism is connected to a bus system (installation bus system). Supplied without a surface fixture box.

Order no. 8272082



#### Rain sensor – Ondeis 230 V AC

To be used in combination with wireless light and wind sensors with a connection for a rain sensor

- fast and precise sensor reaction as a result of more accurate measurement of precipitation
- integrated, self-regulating heater function
- quick and problem-free installation
- simple installation, includes sensor and power supply cable (power cables are white, 2 strand and UV resistant)

The rain sensor should be connected to a pre-installed light / wind sensor Soliris Uno or Soliris IB.

Order no. 8272065

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