



BiConnect
Simply intuitive.

Controls and Motor Drives

Radio controls

Wired control units

Motor drives | Gear drives

UPDATE august 2021

Page 565,
Sunea io remote-controlled
motor correction

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Suneo 50 io weights
corrected

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Controls







Don't flip out, flip switches: smart accessories to make life easier on your patio

weinor offers a wide variety of bespoke solutions to operate and control awnings, LED light bars and heaters. And for those people looking for something more convenient than a gear drive or wired controls, BiConnect, a set of intuitive products designed especially for weinor, offers the ultimate in controls. For awnings, the favoured option is a hand transmitter with LED feedback, while Glasoasen® are best operated and controlled using a hand transmitter with display – or even by iPhone/iPad. Customers intending to turn their patio controls into a fully-automated system one day are best advised to purchase Somfy io-homecontrol®. In turn, the tried-and-tested Somfy RTS is ideal for customers who already appreciate and are familiar with this system.

Controls

Control systems at a glance

weinor accessories: smart products to make life easier – absolutely reliable and simple to control

System	Operation	Receiver	Sensor	Motor drives
BiConnect 	Hand transmitter: <ul style="list-style-type: none"> • BiEasy 1M • BiEasy 5M • BiEasy 15M Go! iPhone / iPad: <ul style="list-style-type: none"> • BiEasy App Wall transmitter: <ul style="list-style-type: none"> • BiEasy 1MW-3V 	Awning drive: <ul style="list-style-type: none"> • BiRec MA • BiRec MA-K Awning + LED lighting: <ul style="list-style-type: none"> • BiRec MLED Awning, LED lighting, Valance Plus: <ul style="list-style-type: none"> • BiRec MVLED LED; heating in combination with Schuko plug: <ul style="list-style-type: none"> • BiRec ST LED lighting: <ul style="list-style-type: none"> • BiRec LED • BiRec LED-48V • BiRec RGB • BiRec RGB -48V Other electronic accessories: <ul style="list-style-type: none"> • BiRec On/Off (for retrofitting) • BiRec On/Off-I (if integrated in the product) Heating: <ul style="list-style-type: none"> • BiRec HD 	Sun sensor: <ul style="list-style-type: none"> • BiSens Sun-Solar Sun/wind sensors: <ul style="list-style-type: none"> • BiSens SW-230V/Solar+* Sun/wind/rain sensor: <ul style="list-style-type: none"> • BiSens SWR-230V Product protection sensor: <ul style="list-style-type: none"> • BiSens Agido-3V 	<ul style="list-style-type: none"> • Becker • Somfy • elero RolTop • elero SunTop
Somfy io-homecontrol® 	Hand transmitter: <ul style="list-style-type: none"> • Situo 1 io Pure II • Situo 5 io Pure II • Situo 5 Variation A/M io Pure II Wall transmitter: <ul style="list-style-type: none"> • Smoove 1 io Pure Shine Control: <ul style="list-style-type: none"> • Connexion io 	Awning drive: <ul style="list-style-type: none"> • Awning Slim Receiver io Plug (retrofitting a hard wired motor with radio control) weinor PergoTex II: <ul style="list-style-type: none"> • Awning Slim Receiver io Plug LED lighting: <ul style="list-style-type: none"> • Lighting Receiver Variation on/off io Heating: <ul style="list-style-type: none"> • Heating Slim Receiver on/off io 	Sun sensor, battery-operated: <ul style="list-style-type: none"> • Sunis WireFree io II Wind sensor, battery-operated: <ul style="list-style-type: none"> • Eolis WireFree io • Eolis 3DWireFree io 	<div>Update</div> <ul style="list-style-type: none"> • Sunea io remote motor (awning main drive) • Sunea io remote motor for Valance Plus (Opal Design II and Semina Life with Valance Plus)
Somfy RTS 	Hand transmitter: <ul style="list-style-type: none"> • Situo 1/5 RTS Pure II • Situo 1/5 Soliris RTS Pure II each with 1 or 5 channels Wall transmitter: <ul style="list-style-type: none"> • Smoove 1 RTS Pure Shine 	Awning drive: <ul style="list-style-type: none"> • Universal Receiver RTS (wired motor drive with radio can be retrofitted) LED lighting: <ul style="list-style-type: none"> • Lighting Slim Receiver RTS Volant Plus: <ul style="list-style-type: none"> • Universal Slim Receiver RTS Heating: <ul style="list-style-type: none"> • Heating Slim Receiver RTS Plug, not dimmable • Optional Chronis wireless timer system 	Wind sensor: <ul style="list-style-type: none"> • Eolis Sensor RTS • Eolis 3D WireFree RTS Wind/sun sensor: <ul style="list-style-type: none"> • Soliris Sensor RTS Rain sensor: <ul style="list-style-type: none"> • Ondeis 	<ul style="list-style-type: none"> • Somfy RTS remote-controlled motor
Wired control units 	<ul style="list-style-type: none"> • Wall switch installed on site • Soliris Uno • Soliris Smoove Uno set with control unit 	—	Sun/wind sensors: <ul style="list-style-type: none"> • Soliris Sensor Rain sensor: <ul style="list-style-type: none"> • Ondeis 	<ul style="list-style-type: none"> • Becker • Somfy
Gear drive	Gear handle	—	—	—

* BiSens SW-230V Solar+ is only recommended for systems that are not operated as privacy screens.

— not available

Controls

Combination options for patio products

• Combinable

	Topas	Semina	Semina Life/LED	I/K/N 2000	Cassita II/LED	Opal Design II/LED	Kubata/LED	Plaza Viva/LED	weinor Pergotex II	WGM Top	Conservatory awnings	Solitezza II/LED	VertiTex II/VertiTex WetTop	LED/LED Design/3Spot	LED RGB Strip	Tempura/Tempura Quadra	Terrazza Pure
weinor BiConnect																	
BiEasy 1M hand transmitter (not in combination with LED version)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BiEasy 5M hand transmitter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BiEasy 15M Go! hand transmitter (ideal in combination with RGB LED light strip)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BiEasy app (only works with BiEasy box and BiEasy stick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BiRec MA (awning) receiver	•	•		•	•				•	•	•						
BiRec MA-K (awning) receiver			•			•		•									
BiRec MLED (awning + lighting) receiver			•		•	•	•			•							
BiRec MVLED (awning + Valance Plus + lighting) receiver			•			•											
BiRec LED (lighting) receiver													•				
BiRec RGB															•		
BiRec LED-48V								•									
BiRec RGB-48V																	•
BiRec On Off																•	
BiRec On/Off I (for retrofitting) internal installation													•				
BiRec HD (heating) receiver																•	
BiSens Sun-Solar sensor	•	•	•	•	•	•	•	•	•	•	•	•					
BiSens SW 230 V sun/wind sensor	•	•	•	•	•	•	•	•	•	•	•	•					
BiSens SW-Solar+ sun/wind sensor	•	•	•	•	•	•	•	•	•	•	•	•					
BiSens SWR 230V sun/wind/rain sensor	•	•	•	•	•	•	•	•	•	•	•	•					
BiSens Agido-3V product protection sensor	•	•	•	•	•	•	•	•	•	•	•	•					
Somfy io-homecontrol®																	
Smooove 1 io Pure Shine wall transmitter	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Situo 1 io Pure II (remote hand transmitter)	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Situo 5 io Pure II (remote hand transmitter)	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Situo 5 Variation A/M io Pure II (remote multi-channel/sun protection controls for facade)	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Connexoon io	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Eolis WireFree io (battery-operated remote wind sensor)	•	•	•	•	•	•	•	•	•	•	•	•	•				
Eolis 3D WireFree io	•	•	•	•	•	•	•	•	•	•	•	•	•				
Sunis WireFree io II (remote sun protection controls for facade)	•	•	•	•	•	•	•	•	•	•	•	•	•				
Lighting Receiver Variation on/off io (weinor version, LED not dimmable)			•		•	•	•	•		•		•					
Awning Slim Receiver io Plug								•									
Heating Slim Receiver on/off io 2KW STAS3/STAK3																•	
Somfy RTS																	
Situo 1 RTS Pure II (1 channel)/Situo 5 RTS Pure II (5 channel) hand transmitter	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Situo 1 Soliris RTS Pure II (1 channel)/Situo 5 Soliris RTS Pure II (5 channel) hand transmitter	•	•	•	•	•	•	•	•	•	•	•	•	•			•	
Smooove 1 RTS Pure Shine wall transmitter	•	•	•	•	•	•	•	•	•	•	•	•	•				
Ondeis 230V AC rain sensor	•	•	•	•	•	•	•	•	•	•	•	•	•				
Eolis 3 D WireFree RTS, white (wind sensor)	•	•	•	•	•	•	•			•	•	•					
Eolis Sensor RTS (wireless wind sensor)	•	•	•	•	•	•	•		•	•	•						
Soliris Sensor RTS (radio/wind/sun sensor)	•	•	•	•	•	•	•		•	•	•						
Soliris Sensor RTS/with rain sensor connection	•	•	•	•	•	•	•		•	•	•						
Lighting Slim Receiver RTS Version weinor, LED not dimmable			•		•	•	•			•		•					
Universal Slim Receiver RTS Plug (Valance Plus + VertiTex II)	•					•	•				•						
Universal external radio receiver RTS for retrofitting a wired motor drive with radio (can be combined with Eolis/Soliris sensor RTS)	•	•	•	•	•	•	•	•	•	•	•						
Heating Slim Receiver RTS Plug, not dimmable																•	
Chronis RTS smart, radio timer system to control the Tempura																•	
Wired control units																	
Soliris Smooove Uno set with control unit	•	•	•	•	•	•	•	•	•	•	•	•					
Ondeis 230V AC rain sensor	•	•	•	•	•	•	•	•	•	•	•	•					
RGB control with integrated power supply pack 230 V															•		
Gear drives																	
Gear handle	•	•	•	•	•	•				•							
Adjustment kits																	
Adjustment kit with coupling element (for Becker and Somfy motor drives)	•	•	•	•	•	•	•	•	•	•	•	•					
Test run cable incl. adjustment kit for remote-controlled and wired motor drives (Becker and Somfy)	•	•	•	•	•	•	•	•	•	•	•	•					

BiConnect radio control



weinor BiConnect – the high performance radio control system for outdoor living luxury

With weinor's BiConnect radio control, operating and controlling sun protection products and accessories is a breeze. Its strength shows comes into play when operating products exclusively used on the patio. BiConnect is exceptionally easy to install and to operate intuitively. As it's a local control device, there is no risk of it being hacked through the internet. The direct feedback sent via the hand transmitter immediately tells you about the device statuses. Routing technology ensures that the extra-strong radio signal is forwarded intelligently. The app allows you to operate the system through the convenience of an iPhone or iPad – without superfluous functions. Thanks to the new, simplified ordering process in weinor's E-Shop, BiConnect can be ordered without unnecessary hassle.



BiConnect radio control

BiConnect configuration – at a glance



BiEasy
1M hand transmitter



BiEasy
5M hand transmitter



BiEasy 15M Go!
hand transmitter



iPad / iPhone
with BiEasy app



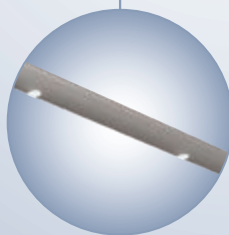
Awning



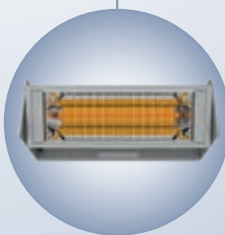
Glasoase®



LED RGB Strip



LED/LED
Design/3Spot
light bars



Tempura/
Tempura Quadra
heating systems



BiSens
weather sensors

BiConnect radio control



BiEasy hand transmitter – secure, simple and convenient

Sun protection, lighting and heaters can all be operated conveniently using the BiEasy 1M and 5M hand transmitters, either in silver or black.

- Secure radio transmission on 868.3 MHz radio frequency
- Bidirectional transmission
- Manual/automatic operation
- High-quality design
- Standard battery
- Visualisation via LEDs
- Magnetic wall bracket
- 1-channel wall transmitter optionally available, surface mountable



BiEasy hand transmitter with display, and BiEasy app

If several channels are to be used (e.g. on Glasoasen®), the simplest and most convenient solution is to use a BiEasy 15M Go! hand transmitter with display or the BiEasy app.

- Coloured LED strips are easily controlled using the BiEasy 15M Go! hand transmitter with display or mobile device
- Simple operation and feedback via hand transmitter display or mobile device
- 15 channels (BiEasy app: up to 30); for individual control of various products



BiRec remote receiver (routing technology)

The BiRec remote receivers receive a signal from the BiEasy hand transmitter and forward it as a command to motor drives, lights and heaters.

- Maximum signal security thanks to routing technology
- Separate receiver for easy replacement in contrast to a remote-controlled motor
- Integrated installation optionally possible – for a neat and tidy look dependent on the product



BiSens sun/wind/rain sensors – sun and product protection at your fingertips

BiSens radio sensors provide maximum convenience. They open the awning automatically when the sun comes out and retract it in the rain and wind.

Available in the following versions:

- Sun/wind/rain sensor
- Sun/wind sensor
- Sun sensor
- Product protection sensor

BiConnect radio control

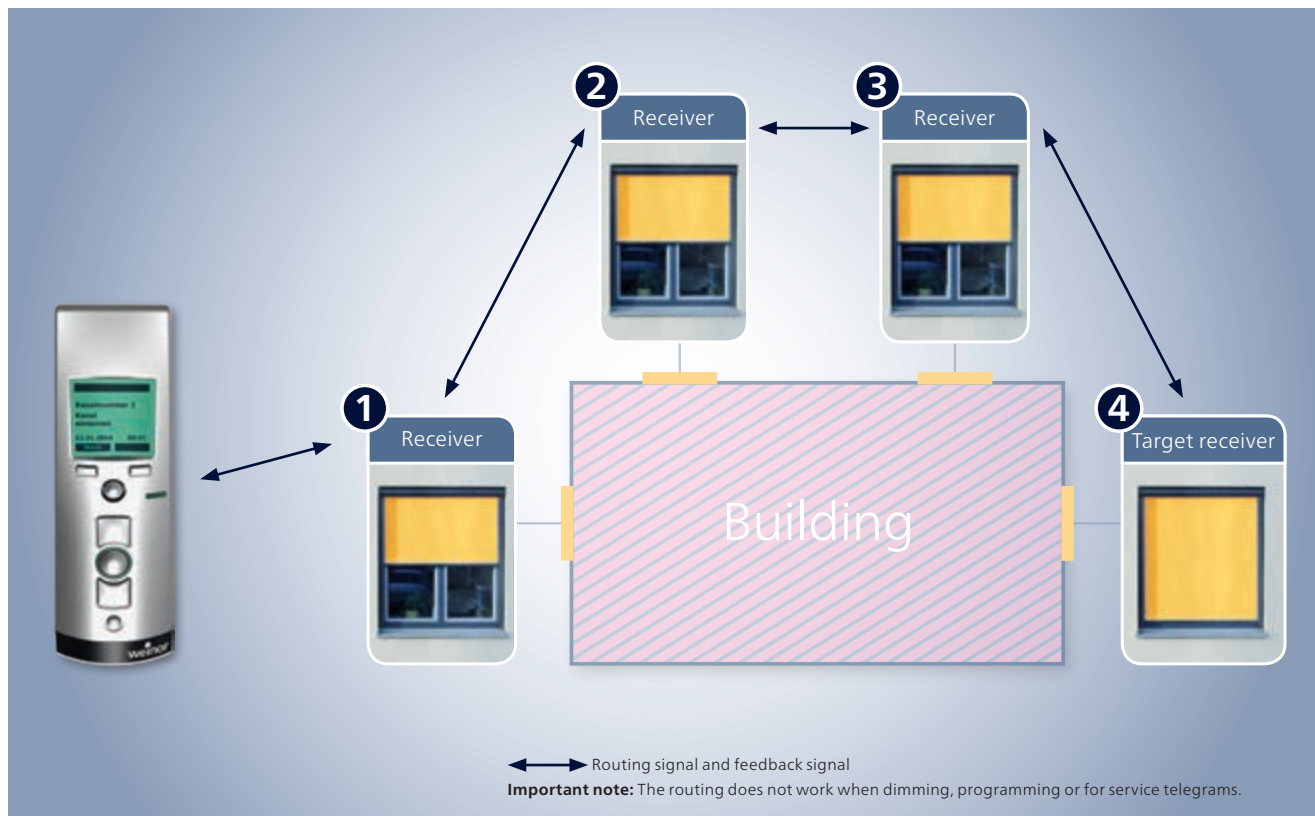
BiConnect system overview/routing technology

Peace of mind through routing

The new BiConnect radio control transmits bidirectional signals and is, above all, reliable thanks to its ultramodern routing technology. In this case, the BiEasy hand transmitter sends a radio signal to an active BiRec receiver within its range. The signal is then forwarded from one receiver to the next until it reaches the target receiver – and all this occurs in a second.




Benefits for the user:

- Secure radio signal through routing technology – even through facades with metal cladding or thick wall insulation
- Direct feedback through control function on hand transmitter
- Significantly less electronic emission than with conventional radio technology
- Protected radio frequency, no disruptions from telephones or WLAN



BiConnect radio control

BiEasy 1M, 5M and 15M Go! hand transmitter

Hand transmitter	No. of channels	Functions	Recommended weinor products
BiEasy 1M 	1	<ul style="list-style-type: none"> Controls one single receiver or a group of receivers Extends and retracts awning, switches on and dims lighting (LED light bar) or Tempura heating system Extra button to switch between manual and automated operation LED on hand transmitter gives feedback from receiver that a command has been successfully executed 	Individual awning or heating or light
BiEasy 5M 	5	<ul style="list-style-type: none"> Controls 5 receivers or up to 5 groups of receivers Automatically combines channels 1 to 5 into a centrally-operated unit for all weinor sun protection Extends and retracts awning, switches on and dims lighting (LED light bar) or Tempura heating system Extra button to switch between manual and automated operation LED on hand transmitter and LED status display give feedback from receiver that a command has been successfully executed 	One or more awnings with lighting and heating
BiEasy 15M Go! 	15	<ul style="list-style-type: none"> Controls up to 15 receivers Automatically combines channels 1 to 15 into a centrally-operated unit for all weinor sun protection Extra button to switch between manual and automated operation Menu navigated via illuminated display incorporating product-specific pictograms Available in 14 languages LED on hand transmitter and LED status on display give feedback from receiver that a positioning command has been successfully executed Optimised to operate RGB: dims and adjusts the colour of the weinor RGB Easier to operate, adapted to weinor products Channels can be assigned names, a suggestion appears on the display depending on the pre-programmed receiver Interim positions can be programmed 	Glasease® or conservatory, particularly in combination with LED, RGB Strip and Coloured LED strips

As a rule, hand transmitters are pre-programmed before leaving the factory.

Caution! Bidirectional BiConnect hand transmitters cannot be combined with unidirectional WeiTronic products. If using hand/wall transmitters: see price list for "weinor awnings and pergola awnings".

BiConnect radio control

BiEasy 1M, 5M and 15M Go! hand transmitter

BiEasy 15M Go!
hand transmitter



Technical data	BiEasy 1M and 5 M	BiEasy 15M Go!
Operating voltage	3 V DC	3 V DC
IP code	IP 20	IP 20
Protection class	II	II
Ambient temperature	0 to 55°C	0 to 55°C
Dimensions	120 x 51 x 26 mm	150 x 51 x 26 mm
Weight	120 g	140 g
Battery type	2 x LR 06 (AA mignon battery)	2 x LR 06 (AA mignon battery)
Radio frequency	868.3 MHz	868.3 MHz

BiEasy wall transmitter, 1MV-3V

Wall transmitter:	Number of channels	Functions	Recommended weinor products
BiEasy 1MV-3V	1	<ul style="list-style-type: none"> • Wall transmitter to control one or more receivers • For operation inside one room • Easy surface-mount cable-free installation • Manual commands such as Up, Stop, Down • LED for transmission control • Extra button to switch between manual and automated operation 	Individual awning or heating or light



Technical data	BiEasy 1MV-3V
Operating voltage	3 V DC
IP code	IP 20
Protection class	II
Ambient temperature	0 to +50 °C
Dimensions	88 x 88 x 20 mm
Battery type	CR 2032
Battery life	2 years
Radio frequency	868.3 MHz

BiConnect radio control

BiRec* receiver



Receiver	Functions	Type of plug
BiRec MA	Awning motor drive	3 m lead, no plug attached, Hirschmann, STAK3
BiRec MA-K	Opal Design II awning motor drive, or ideal for retrofitting + service	Hirschmann, STAS 3 + STAK3
BiRec MVLED	Awning motor drive + Valance Plus motor + LED light incl. dimmer function	AMP, flat plug
BiRec MLED	Awning motor drive + LED light incl. dimmer function	AMP, flat plug
BiRec LED	LED light bar/LED Design light bar, incl. dimmer function	AMP, flat plug
BiRec LED-48V	PergoTex II LED light incl. dimming	CONI1, SuperSeal
BiRec RGB	RGB LED bar up to max. 6.5 m	AMP, JWPF
BiRec RGB-48V	Coloured LED strips up to max. 30 m (48V power supply pack required)	CONI1, JWPF
BiRec On/Off	Controls conventional products (on/off)	3 m lead, Hirschmann, STAK3
BiRec On/Off I	Controls conventional products (internal installation, on/off)	AMP
BiRec HD	Heater, including dimmer function	10 m connecting lead, Hirschmannstecker STAK3
BiRec ST	Wireless socket (on/of) for any devices up to 2,000 watts (only for use in dry rooms)	Schuko safety plug
Control	Functions	Type of plug
Control RGB with integrated power supply back	Coloured LED strips up to max. 6.5 m (for hard wired switch/remote-receiver e.g. Somfy)	AMP, JWPF

* BiRec = Bidirectional Receiver

**Outside BiRec ON/OFF remote switch: other electricity consumers outside can be controlled with the remote switch, e.g. garden lights, pond pumps or plug sockets (switch on and off only).

BiConnect radio control

BiRec receiver



Radio tapping BiRec ST

Other electricity consumers can be easily controlled with the BiRec ST wireless socket (on/off).

Technical data	BiRec ST
Power supply	230 V
Standby output	1 W (per channel)
Switching capacity	up to 2,000 W
Ambient temperature	– 20 to + 80 °C
Dimensions (W x H x D)	110 x 60 x 40 mm (without plug connector)
Radio frequency	868.3 MHz



BiRec name plate with item number (for ordering replacements), version number (for technical support in event of errors)



Recommended: Provide BiRec MA/HD with additional protection using the horizontally mounted design bar

Designer bar, length: 330 mm,
Item number 109070-0000

Caution! Bidirectional BiConnect hand transmitters cannot be combined with unidirectional WeiTronic products.

Installation of the BiRec Receiver

Depending on the product, the receiver is mounted in the awning housing or outside the housing. The BiConnect BiRec MA/HD receivers are splash-proof in accordance with IP 56. The power feeder used depends on the combination of products ordered. In most cases, the model will include a black cable with open cable ends. In the long term, permanent cabling is required.

BiConnect radio control

BiSens weather sensors



BiSens SWR-230V



BiSens SW-230V



BiSens SW-Solar+

sensors	Functions	Data transmission
BiSens SWR-230V	Combined sun/wind/rain sensor <ul style="list-style-type: none"> Automatically opens the awning in sunny conditions and retracts it in wind and rain Electricity supply via power lead Option to deactivate sun sensor LED status display for sun/wind/rain signal Sun/wind/rain thresholds can be set on the sensor Transparent housing 	230 V
BiSens SW-230V	Sun/wind sensor <ul style="list-style-type: none"> Automatically opens awning in sunny conditions and retracts it in windy conditions Electricity supply via power lead Option to deactivate sun sensor LED status display for sun and wind signal Sun and wind thresholds can be set on sensor Transparent housing 	230 V
BiSens SW-Solar+*	Sun/wind sensor <ul style="list-style-type: none"> Automatically opens awning in sunny conditions and retracts it in windy conditions Integrated solar cells for power supply (not suitable for awnings used as privacy shields) No cabling required Option to deactivate sun sensor LED status display for sun and wind signal Sun and wind thresholds can be set on sensor Transparent housing 	Cable-free
BiSens Sun-Solar	Sun sensor <ul style="list-style-type: none"> Automatically opens the awning in sunny conditions Integrated solar cells for power supply No cabling required Sun thresholds can be set on sensor Transparent housing 	Cable-free
BiSens Agido	Product protection sensor <ul style="list-style-type: none"> Battery-powered Retracts awning when vibrations and movement are detected (e.g. gusty winds) Housing in same RAL colour as awning system 	Cable-free

Caution! Bidirectional BiConnect hand transmitters cannot be combined with unidirectional WeiTronic products!

* For sun protection systems primarily used as privacy shields, we recommend the 230V versions. The BiSens SW-230V gets enough energy even in autumn/winter to reliably guarantee the wind safety function all day long.

BiConnect radio control

BiSens weather sensors

BiSens SWR-230V

Technical data	BiSens SWR-230V
Power supply	230 V AC
IP code	IP 44
Ambient temperature	– 20 to +60 °C
Dimensions	205 x 125 x 105 mm
Detection angle	150°
Radio frequency	868.3 MHz

SW-230V, SW-Solar+ and Sun-Solar*

Technical data	SW-230V and SW-Solar+	Sun-Solar*
Power supply	SW-Solar+: integrated solar module SW-230V: 230 V AC power supply voltage	Integrated solar module
Power reserve	≤ 12 hours (SW-Solar+ only)	~ 1 hour
IP code	IP 44	IP 44
Ambient temperature	– 25 °C to +60 °C	– 25 °C to +60 °C
Dimensions	280 x 130 x 130 mm	150 x 42 x 28 mm
Detection angle	150°	190°
Radio frequency	868.3 MHz	868.3 MHz



Agido
product protection sensor

BiSens Agido-3V

Technical data	BiSens Agido-3V
Power supply	LR03 (AAA Al)
IP code	IP 54
Ambient temperature	– 15 °C to +50 °C
Dimensions	205 x 125 x 105 mm
Radio frequency	868.3 MHz

How the sensors work

A sensor can be used for one or more receivers. If different elevations are needed for each receiver, a separate sensor must be used (this is always the case for the Agido vibration sensor). Where required, additional Sun-Solar sensors may be used for each receiver (e.g. depending on compass direction), but only one SWR-230V or SW-230V/Solar+. Sensors are programmed by weinor before leaving the factory. The desired configuration can simply be specified at the time the order is placed in the weinor E-Shop.

* Use of BiSens Sun-Solar

- For systems used purely for privacy protection (vertical awnings).
- In combination with a BiSens SWR 230V, which is not completely south facing. The BiSens Sun Solar then provides another sun contact.
- With a Sottezza II: This does not require wind sensors, but should react to the sun.

BiConnect radio control

How the BiEasy kit works

BiEasy App



WiFi router



BiEasy Box + Stick



The BiEasy kit: simple and intuitive

weinor's BiEasy combines the benefits of the BiConnect bidirectional remote system with the convenient and intuitive operation by iPhone or iPad.

How it works

1. When you run the BiEasy app version, it connects to the BiEasy box via the router (home WiFi on site). It cannot be operated via the internet. This completely eliminates the risk of hacking.
2. The router and box are connected to each other by cable (LAN).
3. The box transmits any commands that it receives to the receiver as a bidirectional radio signal via the BiEasy stick.

BiConnect radio control

How the BiEasy kit works



Example:
Main menu
"Devices"

Important information!

The dimmer function on weinor LED light bars and Tempura heating systems are not fully available with the app. The following dimmer levels can be set: On/Off plus one intermediate level. Full dimmer capability can be accessed using the weinor BiEasy hand transmitter, as before.

BiEasy device	Function
BiEasy App	The free-of-charge BiEasy app for iPhone and iPad can be used to operate folding arm, conservatory and vertical awnings as well as LED lights and heating.
BiEasy box	The BiEasy box is incorporated into your home WiFi system. The BiEasy app connects to this box. The app and box can be used to operate all of the programmed BiRec receivers.
BiEasy Stick	The BiEasy Stick establishes a bidirectional radio connection to the BiRec receivers. The stick inserts into one of the two USB ports on the BiEasy Box. It has 15 channels.

BiEasy app – operation is child's play

The BiEasy app can be downloaded free of charge from the relevant stores. With 15 channels, the BiEasy Stick is easy to operate. Pre-programmed devices are displayed automatically and with an icon and can be renamed. The clearly marked icons on the app make operation child's play. Individual scenarios can be saved and retrieved for enhanced experience. Several users can be created. This allows various smartphones or tablets to have access to the devices at the same time (only for Apple devices).

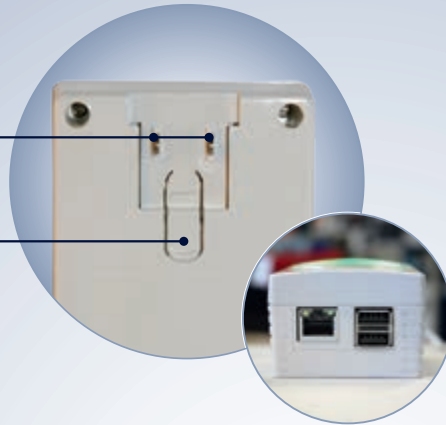
BiConnect radio control

BiEasy Box and Stick

BiEasy box

2 Connection contacts for power supply

Catch (snap-in version) for adaptors being used



Easy to use, easy to connect

The box comes with two USB ports to accommodate one BiEasy stick each. Each stick has 15 channels plus function keys for changing channels, programming as well as for up/down and brighten/dim functions.

The power is connected using an Schuko plug adapter or by means of the supplied power cable. The device is connected to the network on the WiFi router by means of the integrated RJ-45 port. The BiEasy box is only compatible with weinor receivers and sensors.

BiEasy Stick

UP key

Channel display

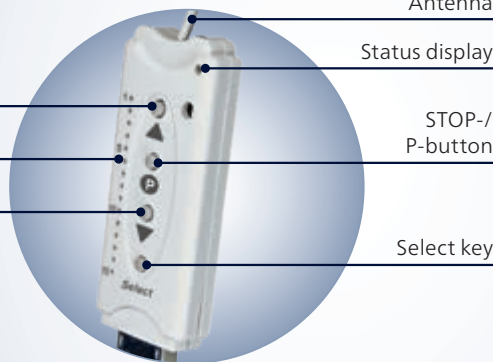
Down key

Antenna

Status display

STOP-/
P-button

Select key



Somfy io-homecontrol®



Somfy io-homecontrol® – for a fully-automated home

The Somfy io-homecontrol® remote control system is not just a convenient means of operating textile sun protection products; its radio technology with reconfirmation also makes it possible to incorporate weinor products into one complete home technology system.

io-homecontrol® allows every convenience and security feature to be combined into one network and be controlled using a single remote transmitter. The expandable system can also incorporate any new products that are added.



Other controls, radio controls or sensors are available directly from Somfy.

Somfy io-homecontrol® radio controller

Somfy io-homecontrol® hand transmitter



Hand transmitter	Number of channels	Functions	Recommended weinor products
Situo 1 io Pure II	1	<ul style="list-style-type: none"> Remote hand transmitter to operate one awning Up, Down and Stop key "my" favourite position (e.g. ideal position for shade) 	One awning One light bar
Situo 5 io Pure II	5	<ul style="list-style-type: none"> Multichannel remote hand transmitter to operate several awnings or one awning with lighting and heating or lighting and Valance Plus Up, Down and Stop key "my" favourite position (e.g. ideal position for shade) 	One or more awnings with lighting
Situo 5 Variation A/M io Pure II	5	<ul style="list-style-type: none"> Bidirectional multi-channel remote transmitter for operation of several awnings or one awning with lighting Up, Down and Stop key Automatic sun control adjustable "my" favourite position (e.g. ideal position for shade) 	One or more awnings with lighting

Technical data	Situo 1/5/5 Variation A/M io Pure II
Operating voltage	3 V DC
IP code	IP 30
Ambient temperature	0 °C to + 48 °C
Battery type	CR 2430
Ambient conditions	dry living space
Radio frequency	868.25 MHz

The Somfy io-homecontrol® (868.25 – 869.85 MHz) system is not compatible with BiConnect (868.3 MHz) products!

Somfy io-homecontrol® radio controller

Somfy io-homecontrol® wall transmitter

Wall transmitter:	Number of channels	Functions	Recommended weinor products
Smoove 1 io Pure Shine	1	<ul style="list-style-type: none"> • Kit: radio module and frame in same colour as Pure Shine • Remote wall transmitter to operate one awning • Innovative operation using touch keys • Up, Down and Stop key • "my" favourite position (e.g. ideal position for shade) • Battery level indicator 	Individual awnings



Technical data	Smoove 1 io
Operating voltage	3V DC
IP code	IP 30
Ambient temperature	0°C to +60°C
Dimensions (WxHxD)	module with 80 x 80 x 10 mm frame
Battery type	CR 2430
Radio frequency	868.25 MHz
Ambient conditions	dry living space

Somfy Connexoon

io control unit	Number of channels	Functions	Recommended weinor products
Connexoon	40	<ul style="list-style-type: none"> • Bidirectional smart io control to operate networked products using a smartphone or tablet (terrace application must be installed) • 4 favourite positions/scenes can be saved • 1 status enquiry can be retrieved • Adjustable automatic sun protection (4 per sensor) • Wind protection status info can be retrieved • Control and status feedback in the application • Internet access by LAN connection required 	<ul style="list-style-type: none"> • Awning with io drive • Lighting in the awning (ON/OFF) • io Sunis • one or more awnings with lighting, other compatible io products on the patio (you can get a current list of compatible products from Somfy) • Phillips hue lamp (1 gateway) (not available from weinor)



Technical data	Connexoon
Operating voltage	5V
IP code	IP 30
Ambient temperature	0°C to +60°C
Dimensions (WxHxD)	approx. 100 x 50 x 50 mm
Battery type	not necessary
Radio frequency	868.25 MHz
Ambient conditions	dry living space

Somfy io-homecontrol® radio controller

Somfy io-homecontrol® receiver



Receiver	Functions	Type of plug
Lighting Receiver Variation on/off io	<ul style="list-style-type: none"> • Bidirectional remote receiver to switch various types of light sources up to 500 W on and off (light bulbs, halogen or LED lamps) • Not dimmable • Feedback whether the connected product has been switched on or off 	AMP Tyco
Awning Slim Receiver io Plug	<ul style="list-style-type: none"> • Remote receiver with integrated automatic wind/sun protection • To control the weinor PergoTex II 	Hirschmann, STAS3 + STAK3
Heating Slim Receiver on/off io 2KW	<ul style="list-style-type: none"> • Radio receiver for use with weinor heaters for on/off control only in combination with a Somfy RTS hand transmitter • Not dimmable • up to 2,000 W 	Hirschmann, STAS3 + STAK3

Technical data	Lighting Receiver Variation on/off io	Heating Slim Receiver on/off io 2KW	Awning Slim Receiver io Plug
Operating voltage	230 V AC ~ 50 Hz	230 V ~ 50 Hz	230 V ~ 50 Hz
Operating temperature	-20 °C to +60 °C	-20 °C to +50 °C	-30 °C to +70 °C
IP code	IP 55	IP 54	IP 54
Protection class	II	II	II
Switch contact rating for relay	max. 500 W	2,000 W	3A cos phi > 0.6
Dimensions (WxHxD)	92 x 43 x 28 mm	131 x 32 x 33 mm	131 x 32 x 33 mm
Radio frequency	868.00 – 870.00 MHz	868.25 – 869.85 MHz	868.25 – 869.85 MHz

Somfy io-homecontrol® radio controller

Somfy io-homecontrol® sensors



Eolis WireFree io



Sunis WireFree io II



Eolis 3D WireFree io

Sensors	Functions	Data transmission	
		Connection	Wireless re-remote sensor
Eolis WireFree io	<ul style="list-style-type: none"> • Bidirectional remote wind sensor to protect one or more awnings from damage caused by winds • Battery-operated sensor • Wind threshold can be set on sensor 	—	yes
Sunis WireFree io II	<ul style="list-style-type: none"> • Bidirectional remote sun sensor to control one or more awnings depending on the brightness of the sun • Sun threshold can be set with Easy Sun io or TaHoma • Battery-operated sensor for facade 	—	yes
Eolis 3D WireFree io	<ul style="list-style-type: none"> • Automatic control of folding arm awning depending on wind load • Easy to set the vibration threshold • Battery-operated sensor 	—	yes

Technical data	Eolis WireFree io	Sunis WireFree io II	Eolis 3D WireFree io
Operating voltage	3 V DC	3 V DC	3 V DC
IP code	IP 44	IP 34	IP 44
Operating temperature	–20 °C to +60 °C	–20 °C to +60 °C	–20 °C to +60 °C
Battery type	Mignon AA	Mignon AA	Alkaline AAA
Setting range for winds	10 – 65 km/h	–	–
Measurement range for brightness	–	50 – 100 kLux	50 – 100 kLux
Dimensions (WxHxD)	216 x 95 mm	78 x 78 x 37/26 mm	38 x 25 x 153 mm
Radio frequency	868.25 – 869.85 MHz	868.25 – 869.85 MHz	868.25 – 869.85 MHz

Somfy RTS radio control



Radio Technology Somfy



Somfy RTS – the tried-and-tested standard solution for patios

Somfy RTS is recommended for everyone who has had a positive experience with this radio control system and therefore wants to stick with it. Being an older Somfy system, RTS does not offer many high-tech features. It is nevertheless a good and tried-and-tested standard means of controlling patio products – from sun protection systems, to LED lights and heaters. Important: Since RTS works unidirectionally, no feedback is given on the status of the units. The radio control system runs on a frequency of 433.42 MHz.

Somfy RTS radio control

Somfy RTS hand transmitter



Hand transmitter	Number of channels	Functions	Recommended weinor products
Situo 1 RTS Pure II	1	<ul style="list-style-type: none"> Remote hand transmitter to operate one awning Up, Down and Stop key "my" favourite position (e.g. ideal position for shade) 	One awning One light bar
Situo 5 RTS Pure II	5	<ul style="list-style-type: none"> Multichannel remote hand transmitter to operate several awnings or one awning with lighting and heating or lighting and Valance Plus Up, Down and Stop key "my" favourite position (e.g. ideal position for shade) 	One or more awnings with lighting and heating
Situo 1 Soliris RTS Pure II	1	<ul style="list-style-type: none"> Remote hand transmitter to operate one awning Up, Down and Stop key "my" favourite position (e.g. ideal position for shade) Button to switch auto sun protection mode on and off 	One awning
Situo 5 Soliris RTS Pure II	5	<ul style="list-style-type: none"> Multichannel remote hand transmitter to operate several awnings, lighting and heating Up, Down and Stop key "my" favourite position (e.g. ideal position for shade) Button to switch auto sun protection mode on and off 	Glasoase® or conservatory

As a rule, hand transmitters are supplied pre-programmed. The Somfy RTS (433.42 Mhz) system is not compatible with the BiConnect (868.3 Mhz) products!

Technical data	Situo 1/5 RTS Pure II, Situo 1/5 Soliris RTS Pure II
Operating voltage	3 V DC
IP code for housing	IP 30
Ambient conditions	Dry living space
Dimensions	41 x 134 x 21 mm
Battery type	CR 2430
Operating temperature	0 °C to +48 °C
Radio frequency	433.42 MHz

Somfy RTS radio control

Somfy RTS wall transmitter



Smoove 1 RTS Pure Shine



Chronis RTS smart

Wall transmitter:	Number of channels	Functions	Recommended weinor products
Smoove 1 RTS Pure Shine	1	<ul style="list-style-type: none"> • Kit: radio module and Pure frame • Remote wall transmitter to operate one awning • Innovative operation using touch keys • Up, Down and Stop key • "my" favourite position (e.g. ideal position for shade) • Battery level indicator 	One awning
Chronis RTS smart	1	<ul style="list-style-type: none"> • Wireless timer system to operate and control RTS products 	Tempura heating system

Technical data	Smoove 1 RTS Pure Shine	Chronis RTS smart
Operating voltage	3 V DC	2x 1.5 V DC
Operating temperature	0 °C to +60 °C	+5 °C to +40 °C
Ambient conditions	dry living space	dry living space
IP code for housing	IP 30	IP 30
Dimensions (WxHxD)	module with 80 x 80 x 10 mm frame	module with 80 x 80 x 27 mm frame
Battery type	CR 2430	Micro AAA
Radio frequency	433.42 MHz	433.42 MHz

The Somfy RTS (433 Mhz) system is not compatible with BiConnect (868.3 Mhz) products.

Somfy RTS radio control

Somfy RTS receiver



Lighting Slim Receiver RTS



Heating Slim Receiver RTS Plug



Universal Slim Receiver RTS Plug

Receiver	Functions	Type of plug
Lighting Slim Receiver RTS	<ul style="list-style-type: none"> Remote receiver to switch halogen and LED lights on and off Up to 500 W 	AMP Tyco
Heating Slim Receiver RTS Plug	<ul style="list-style-type: none"> Remote receiver to switch electric radiant heaters on and off Not dimmable Up to 2,000 W 	Hirschmann, STAS3 + STAK
Universal Slim Receiver RTS Plug	<ul style="list-style-type: none"> Remote receiver with integrated automatic wind/sun protection to control the Valance Plus and VertiTex II 	Hirschmann, STAS3 + STAK3

Technical data	Lighting Slim Receiver RTS	Heating Slim Receiver RTS Plug	Universal Slim Receiver RTS Plug
Operating voltage	230 V ~ 50 Hz	230 V ~ 50 Hz	230 V ~ 50 Hz
Operating temperature	-30 °C to +70 °C	-20 °C to +50 °C	-30 °C to +70 °C
IP code for housing	IP 54	IP 54	IP 54
Switch contact rating	500 W	2,000 W	3A cos phi > 0.6
Number of RTS remote transmitters that can be registered	12	12	12
Dimensions (WxHxD)	105 x 32 x 33 mm	131 x 32 x 33 mm	131 x 32 x 33 mm
Radio frequency	433.42 MHz	433.42 MHz	433.42 MHz

Somfy RTS radio control

Somfy RTS sensors



Eolis Sensor RTS



Soliris Sensor RTS

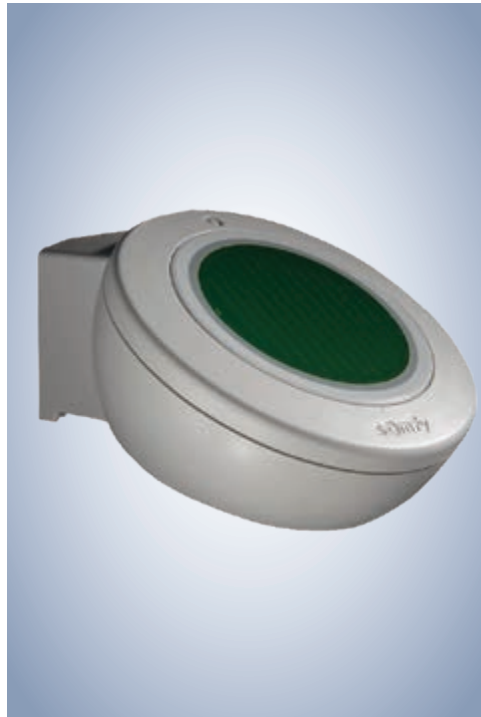


Eolis 3D WireFree RTS

sensors	Functions	Connection
Eolis Sensor RTS	<ul style="list-style-type: none"> • Remote wind sensor to protect one or more awnings from damage caused by winds • Wireless communication with the radio control and/or remote receiver • Wind threshold can be set on sensor • LED display indicates when wind threshold has been exceeded 	230 V
Soliris Sensor RTS	<ul style="list-style-type: none"> • Remote wind/sun sensor to protect one or more awnings from damage caused by winds and to adjust on one or more depending on the brightness of the sun • Wireless communication with the radio control and/or remote receiver • Wind and sun threshold can be set on sensor • LED display indicates when wind/sun threshold has been exceeded 	230 V
Eolis 3D WireFree RTS	<ul style="list-style-type: none"> • Automatic control of folding arm awning depending on wind load • Easy to set the vibration threshold • Battery-operated sensor 	—

Technical data	Eolis Sensor RTS	Soliris Sensor RTS	Eolis 3D WireFree RTS
Operating voltage	220 – 240 V ~ 50/60 Hz	220 – 240 V ~ 50/60 Hz	2 x 1.5 V
Operating temperature	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +60 °C
Battery type	–	–	Alkaline AAA
IP code for housing	IP 34	IP 34	IP 44
Protection class	II	II	II
Measurement range for brightness	–	0 – 50 kLux	0 – 50 kLux
Setting range for winds	10 – 50 km/h	10 – 50 km/h	10 – 50 km/h
Dimensions (WxH)	236 x 160 mm	236 x 160 mm	38 x 25 x 153 mm
Radio frequency	433.42 MHz	433.42 MHz	433.42 MHz

Wired control units



somfy®

Wired control units – fast, easy, tried and tested

Awnings, heating and lighting can, of course, also be conveniently regulated using a Somfy wall switch. The advantage of this solution is that you not only avoid having to hunt around for misplaced hand transmitters, but there is also no need to change any batteries. A wall switch is quite simply available all of the time – having been used hundreds of thousands of times, it has proven itself over the years.

Wired control units

Overview



Soliris Smooove Uno + control unit

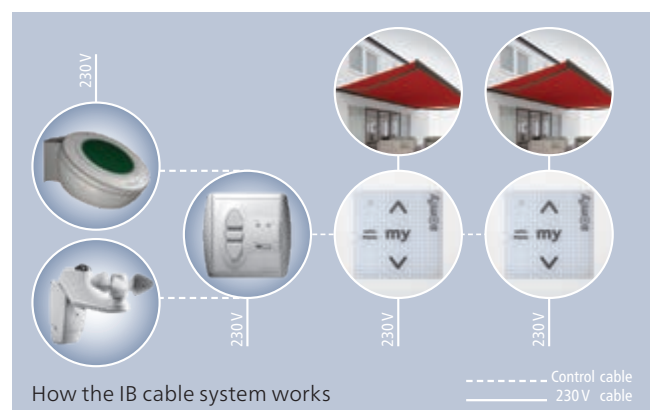
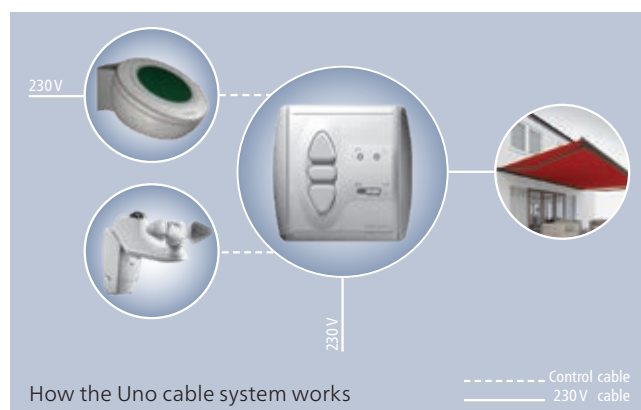


Ondeis rain sensor

Systems	Functions	Connection
Soliris Smooove Uno	<ul style="list-style-type: none"> • Sun and wind sensor (Soliris Smooove uno) with control unit • Control unit for manual control of a drive • Innovative operation using touch keys • LED wind or rain alarm display • Automatic sun control can be switched on/off • Sturdy insertable frame for fast and easy installation • Insertable frame can be fitted to flush box 	230 V
Ondeis 230V AC rain sensor	<ul style="list-style-type: none"> • Capacitive sensor measures levels of rain and snowfall • Can be combined with any control unit with an input for potential-free sensors • Integrated self-regulating heating 	230 V

Technical data	Smooove Uno
Operating voltage	230 V AC
Operating temperature	0 °C to +45 °C
Ambient conditions	Dry living space
IP code	IP 20
Protection class	II
Output voltage	230 V AC
Output current	3.15 A
Dimensions (WxHxD)	module with 80 x 80 x 41 mm frame

Technical data	Ondeis rain sensor
Operating voltage	100 – 230 V AC, 50/60 Hz
Operating temperature	–20 °C to +60 °C
IP code for housing	IP 44
Protection class	II
max. heating capacity	< 4 W
Dimensions (WxHxD)	115 x 85 x 100 mm



Motor Drives



Electric motor drives – powerful and invisible

Electric drive motors handle the infinitely variable opening and retracting of folding arm awnings, conservatory awnings and vertical sun protection. They are durable and require no maintenance. A number of models are available to cover specific requirements – depending on the manufacturer, they come with or without integrated remote receiver. The drive is always installed at weinor's factory prior to dispatch.

Motor drives

Drive motors for weinor awnings



Somfy Orea 50 RTS

weinor uses a variety of drive motors depending on the patio product in question. These come from Becker, Somfy or elero and are installed into the roller tube by weinor. For installation purposes, they can be fitted with an adjustment cable, which can be ordered from weinor.

Somfy Orea 50/60 RTS electronic radio motor

Technical data	Orea 50 RTS						Orea 60 RTS					
	6/17	15/17	20/17	25/17	30/17	40/17	50/12	55/17	70/17	85/17	100/12	120/12
Nominal voltage/ Frequency	230 V/50 Hz											
Mark of conformity	VDE											
IP code	IP 44											
Nominal torque	6	15	20	25	30	40	50	55	70	85	100	120
Nominal speed (rpm)	17						12	17			12	
Power consumption (W)	90	140	160	170	240	270	240	290	350	400	350	400
Duty cycle (min.)	4											
Weight/mass (kg)	1.85	2.12	2.22	2.34	2.5	2.85	2.59	4.18	4.5	4.7	4.82	5.03
Number of cable strands	3											

Somfy Orea 50/60 WT electronic motor

Technical data	Orea 50 WT		Orea60 WT				
	25/17	40/17	55/17	70/17	85/17	100/12	120/12
Nominal voltage/ Frequency	230 V/50 Hz						
Mark of conformity	VDE						
IP code	IP 44						
Nominal torque	25	40	55	70	85	100	120
Nominal speed (rpm)	17					12	
Power consumption (W)	170	270	290	350	400	350	400
Duty cycle (min.)	4						
Weight/mass (kg)	2.2	2.8	4.39	4.82	5.03	4.82	5.03
Number of cable strands	4						

Motor drives

Drive motors for weinor awnings

Somfy Sunea 50/60 io electronic, bidirectional radio motor

[Update](#)

Technical data	Sunea 40 io	Sunea 50 io				Sunea 60				
	13/10	25/17	30/17	40/17	50/12	55/17	70/17	85/17	100/12	120/12
Nominal voltage/Frequency	230 V/50 Hz									
Mark of conformity	VDE									
IP code	IP 44									
Nominal torque	13	25	30	40	50	55	70	85	100	120
Nominal speed (rpm)	10	17			12	17			12	
Power consumption (W)	110	170	240	270	240	290	350	400	350	400
Duty cycle (min.)	4									
Weight/mass (kg)	1.28	2.1	2.3	2.5	2.3	4.18	4.5	4.7	4.82	5.03
Number of cable strands	3									
Max. number of programmable io remote transmitters and io sensors	9									



Somfy Sunea

elero SunTop/RolTop electronic, bidirectional radio drive, compatible with BiConnect

Technical data	SunTop M			SunTop L	RolTop S/ SunTop-868 S12
	20-868	40-868	50-868	80-868	12-868
Nominal voltage/Frequency	230 V/ 50 Hz	230 V/ 50 Hz	230 V /50 Hz	230 V/ 50 Hz	230 V/ 50 Hz
Mark of conformity	CE, VDE, VDE EMC	CE, VDE, VDE EMC	CE, VDE, VDE EMC	CE	CE, VDE, VDE EMC
IP code	IP 44	IP 44	IP 44	IP 44	IP 44
Nominal torque (Nm)	20	40	50	80	12
Nominal current (A)	0.9	1.2	1.3	2	0.73
Nominal speed (rpm)	14	14	14	14	17
Power consumption (W)	200	270	300	470	168
Duty cycle (min.)	4	5	4	4	4
Weight/mass (kg)	2.2	2.6	3.1	3.6	1.3
Number of cable strands	4	4	4	4	4



SunTop M

Motor drives

Drive motors for weinor awnings



Universal sun protection drives with electronic end switch

Technical data	R12-17-E12	R20-17-E12	R30-17-E12	R40-17-E12	R50-11-E12	L50-17-E12	L80-11-E12
Nominal voltage (V)	230	230	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50	50	50
Mark of conformity	VDE	VDE	VDE	VDE	VDE	VDE	VDE
IP code	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Nominal torque (Nm)	12	20	30	40	50	50	80
Nominal current (A)	0.5	0.75	0.9	1.15	1.1	1.4	1.4
Nominal speed (rpm)	17	17	17	17	11	17	11
Power consumption (W)	110	160	205	260	240	315	310
Operating mode	S2 4 minutes	S2 4 minutes	S2 4 minutes	S2 4 minutes	S2 4 minutes	S2 4 minutes	S2 4 minutes
Number of cable strands	4	4	4	4	4	4	4
Cross-section of strand (mm ²)	0.75	0.75	0.75	0.75	0.75	0.75	0.75

Motor drives

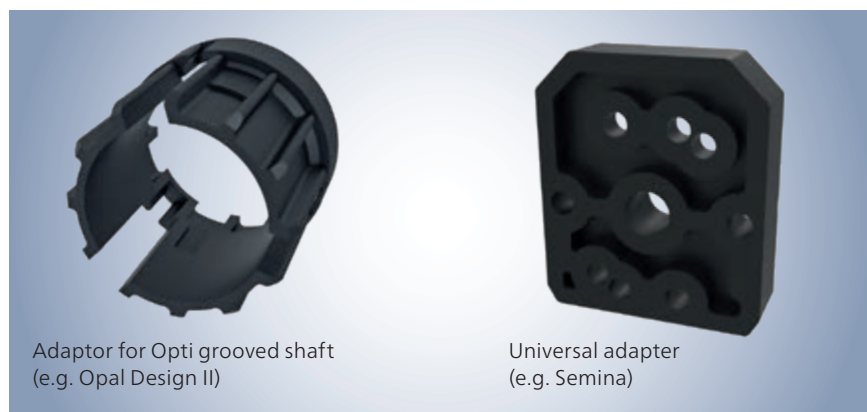
Drive motors for weinor awnings



Tubular drive with electronic torque limiter Becker P9/16PS

Technical data	P9/16PS
Nominal voltage/ Frequency	230 V/50 Hz
Mark of conformity	VDE
IP code	IP 44
Nominal torque	9
Nominal current (A)	0.47
Nominal speed (rpm)	16
Power consumption (W)	110
Operating mode	S2 4 min.
Number of cable strands	4
Cross-section of strand (mm ²)	0.75

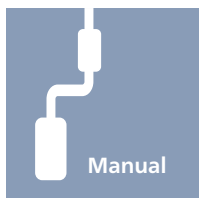
Examples of adaptors



Adaptor for Opti grooved shaft
(e.g. Opal Design II)

Universal adapter
(e.g. Semina)

Gear drives



Gear drive – fundamentally simple and inexpensive

weinor gear drives are simple, stable and permanently installed. This inexpensive solution for operating awnings can be used at any time. Although a gear drive does not offer the same full operating convenience of other solutions, it is exceptionally reliable: when combined, a gear handle and gear drive are highly effective. The inconspicuous gear handle blends in with the overall look of the product, is removable and can be hung using a clip. It is available in standard lengths of between 80 and 280 cm.

Gear drives

Freewheel gear with infinitely adjustable end positions



Geiger 412F5.. Standard



Geiger 412F5.. reinforced

weinor uses different Geiger gearboxes for the main drive of awnings depending on the projection and width.*

* Subject to change

Systems	Geiger 412F5.. Standard	Geiger 412F5.. reinforced
Functions	<ul style="list-style-type: none"> Integrated end stop system Freewheel when open 	<ul style="list-style-type: none"> Used on larger-sized awnings

Technical data	Geiger 412F5.. Standard	Geiger 412F5.. reinforced
Reduction ratio	4.4:1	4.4:1
Efficiency	0.61	0.61

Colours	White	Black	Grey	Galvanised
Gear drive	●	●	●	●
Gear handle	●	●	●	●

● Standard

How the freewheel system works

Once the end position has been reached, an innovative freewheel system triggers an acoustic alarm.

This tells the user that the end position has been reached and that the awning cannot open any further.

The awnings system is thus protected from operating error, and there is no risk of the gear drive being damaged. The awning's end position can be adjusted at any time using the integrated end stop system.

The end position can only be adjusted by loosening the Allen screw, which can be accessed from the outside. There is no need to dismantle the gear drive or awning roller. This saves employees time when adjusting the end position.

Gear drives

Gear without free wheel



Geiger bevel gear



Geiger worm gear

Systems	Geiger bevel gear 412F7..	Geiger worm gear 414F..
Functions	<ul style="list-style-type: none"> • Without free wheel • Fast and smooth-running • Is inserted directly into the roller tube (on Topas without roof) 	<ul style="list-style-type: none"> • Without free wheel • Maximum performance with minimal gear size • Is inserted directly into the roller tube

Technical data	Geiger bevel gear 412F7.. (Topas without roof)	Geiger bevel gear 411F.. (Sottezza II)	Geiger worm gear 414F.. (Valance Plus)
Reduction ratio	4.4:1	7.8:1	3:1
Efficiency	0.6	0.5	0.4



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