

(EN) Operating instructions (translation)

Follow these instructions for safe and proper use. Keep the instructions for future reference.



Product contents

Cordless motion sensor for awnings, battery-operated with 2 x Mignon LR6 1.5V, fixing set and instruction manual.

Technical Data Protero 868 / Protero 915

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Power supply	2 x Mignon LR6 (not rechargeable batteries)	
Radio frequency [MHz]	869.525 868.3 915.3 918.3	
Transmission power [dBm]	≤ 10	
Number of channels	1 (uni or bidirectional)	
Operating temperature [°C]	-20 +50	
Relative humidity	0 to 95%, non-condensing	
Protection class (IP)	54	
Dimensions (WxHxD) [mm]	130 x 36 x 22	
Weight [g]	approx. 50	
Type of mounting	screwed in or glued to the drop profile of the awning in the longitudinal direction	
Item number 868 MHz white 868 MHz grey 915 MHz white 915 MHz grey	289650001 289650901 289660001 289660901	

Safety instructions



Please read this operating manual carefully as the procedure in this manual is a prerequisite for correct use of the product Only operate the transmitter within sight of the awning drive!

The figures in this operating manual are for illustration purposes only. The illustrations may differ from your product with respect to minor details and are provided for general information only.

elero GmbH continuously strives to improve all products. As a result, the specifications, features and technology of this product may be changed at any time. The information in this operating manual is based on current information at the time of publication. No claims can be derived from the technical data, images and information in this operating manual.

Intended use / Foreseeable misuse

Only to be used for switching elero radio drives. Do not make any changes to the unit. Do not allow the device to fall, do not drill into the device and do not immerse in liquids. The manufacturer will not assume liability for damage caused by the above.

Function

The Protero-868/-915 is a battery-operated radio transmitter with sensors.

It protects the awning by causing it to auto-matically retract when it is rattled by heavy winds or when water collects on the fabric (inclination change). A sensitivity threshold is used to detect the triggering event. The Protero 868/915 has been designed exclusively for use in conjunction with articulated arm awnings with a box or cartridge.

Bidirectional radio system

A bidirectional radio system transmits radio signals to a radio receiver and enables feedback from the radio receiver to the transmitter. The radio signal can be sent directly to the target receiver. The target receiver car-ries out the command and sends a confirmation back to the transmitter (only when button is pressed). In order for bidirectional radio mode to work, all of the components involved must be able to transmit and receive radio signals. Whether bidirectional operation is possible depends on the bidirectional communication capability of the receiver.
Compatibility with the following **elero** radio drives or receivers:

SunTop 868 from V25, VariEco 868 from V20, Combio 868 RM from V79, Revio 868 from V12.

Unidirectional radio system

A unidirectional radio system transmits radio signals to radio receivers. However, unlike in a bidirectional radio system, the radio receiver cannot send any messages to the transmitter.

Parallel operation of both radio modes is not possible. After pressing the button [P], the Protero-868/-915 decides whether uni or bidirectional radio system will be used.
Change to the other radio operating mode by deleting all transmitters (Prote-ro-868/- 915 and hand/wall transmitters) from the receiver (press [OPEN]+[DOWN/CLOSE]+[STOP]+[P] for 6 seconds), then program again.

Assembly and commissioning

Check compatibility of the accessories used before assembly

- Screwed in (with screws from the fixing set) or glued to one end of the outside or inside of the drop profile without hindering the closing of the awning.
- Drill 2 holes in the drop profile according to the selected fixing element at the specified distance: Fix the base plate with the engraved arrow "oben/up" pointing upwards (the longitudinal axis of the Protero-868/-915 is parallel to the drop profile)

Important: The batteries are not activated at deİivery.

To activate, remove the insulating strips on

the battery contacts.

Make sure the radio link is unobstructed.

Do not operate any devices on the same radio frequency nearby (e.g., wireless headphones).

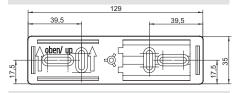
- Programming the Protero-868/-915 to the receiver: see "Programming the transmitter/channel"
- Test regularly to ensure that the sensor is

working properly.
The Protero-868/-915 can only protect the awning from sudden wind gusts to a limited degree due to the awning's travel time.

In the event of an impending storm, ensure that the awning remains in a retracted position.

After commissioning, check that the thresholds set allow the awning to retract. The factory default setting ensures safe operation in most applications

Housing base plate



Programming

Programming the transmitter / channel Requirement: The elero awning drive must be set and 1 elero radio transmitter must already be programmed. The Protero-868/-915 can theoretically be programmes on multiple elero awning drives. However, it is recommended for the sensor to only be programmed to the receiver on 1 awning.

Important:

Do not press the programming button P before the receiver is in programming mode. If the receiver is not in programming mode, the transmitter channel will change to unidirectional operation. To return to the initial state, press the [STOP] button and the programming button [P] simultaneously for 6 seconds until the LED indicator illuminates

- Press the [OPEN] button, [DOWN/CLOSE] button and the programming button [P] simultaneously for 3 seconds on the transmitter that has already been programmed to the receiver. The LED illuminates briefly.
- The receiver is in programming mode. Press the programming button [P] on the Protero-868/-915 for at least 1 second until the LED illuminates. The receiver is now in programming mode and indicates this by
- extending and retracting.

 Press the [OPEN] button (max. 1 second) after the retraction starts. The blind will stop
- Press the [DOWN/CLOSE] button (max. 1 second) after the extension starts The blind will stop. The Protero-868/-915 is programmed.

Setting the wind sensitivity and inclination sensitivity

The Protero-868/-915 is delivered with a basic factory setting. Following assembly and commissioning, it is necessary to adjust the sensitivity of the awning to inclination and wind to suit the local conditions. There must be no wind when doing this.

Wind sensitivity:

- Drive the awning to the outer end position. When this has been reached, the Protero-868/-915 will reference within 210 seconds. It is essential to wait until this time has elapsed!
- Now manually move the drop profile with the mounted Protero 868/915 in order to mimic vibrations similar to those that
- should cause the awning to retract.

 3. Depending upon the result (too sensitive or too insensitive), change the basic factory setting of the "acceleration" threshold

Inclination sensitivity:

- Now drive the awning back to the outer end position. Wait for at least 210 seconds for the Protero-868/-915 to reference
- again.

 2. Check the preset inclination sensitivity of 1° by very slowly pressing the drop profile in the outer end position downwards as far as the point of inclination you find acceptable and holding it there. The awning will retract after at least 210 seconds (position alarm).
- 3. Depending upon the result (too sensitive or too insensitive), change the basic factory setting of the "angle" threshold switch.

Important:

- Every setting that is changed must be checked.
- Test regularly to ensure that the sensors are working properly. The awning is like-wise protected against the wind during extension and retraction.

Programming



Timeout after alarm

If the awning is retracted following an "position or acceleration alarm", extension is only possible again after a timeout of approx. 15 minutes. During the timeout, any extension is stopped automatically after approximately 3 seconds and an automatic forced retraction

- takes place (locking movement).

 The timeout can be ended earlier as follows:

 During the locking movement, press the [STOP] button on the programmed transmitter and then press the [OPEN] button. After reaching the upper end position the drive switches off, after which the time-out is ended.
- On a programmed wall transmitter, move the Auto/Manual sliding switch to the other position and then back again.
- On a programmes hand-held transmitter, use the selection button to switch from automatic mode to manual mode.

Status LED on printed circuit board

When the status LED is illuminated, this indicates a radio signal. The same indicator light also indicates the operating mode of the receiver as follows:

Status display	Meaning
green	Channel is in unidirectional mode.
orange then green	Channel has been programmed in bidirectional mode and the receiver has acknowledged the signal.
flashing red 20 Hz	Batteries are low.
flashing orange 5 Hz	Channel is empty or not yet programmed
flashing orange 10 Hz	Channel has been program- med in bidirectional mode and the bidirectional receiver is also in programming mode
red	Channel is deleted from the receiver

Deleting the radio connection

- Delete individual channel (transmitter): Press the [STOP]+[P] buttons for at least 6 seconds until the status LED lights up red
- Delete all channels (transmitter):
 Press the [UP]+[DOWN/CLOSE]+[STOP]-+[P] buttons for at least 6 seconds until the status LED lights up red.

Conformity

elero GmbH hereby declares that the radio system type Protero 868/-915 is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address: www.elero.com/downloads-service

Inclination sensitivity when awning is stopped

Switch setting	Bidirectional threshold value	Unidirectional threshold value
0	Function deactivated	1°
1 (factory settings)	1°	1°
2	1.5°	1°
3	2°	2°
4	2.5°	2°
5	3°	2°
6	3.5°	2°
7	4°	2°
8	4.5°	2°
9	5°	2°

Wind sensitivity when awning is stopped

Switch setting	Bidirectional threshold value	Unidirectional threshold value
1	1	1
2 (factory settings)	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	8
0	10	8

Replacing the battery

If the extension of the awning is interrupted twice (loss movement), this is a sign of nearly empty batteries, that are in need of replacement.

If the awning can no longer be extended (3 seconds extension, 1 second stop, 1 second extension, then retraction to upper end position), the batteries must be replaced.

1. If the awning is retracted, press the

- extension button on the hand/wall trans-
- The awning extends for approx. 3 seconds and stops briefly due to the absence of
- wind monitoring.
 The awning subsequently retracts. Immediately press the [STOP] button (while retracting). The awning now stops in this
- Disconnect the drive from the power supply.
- Unscrew central sheet metal screw with a suitable tool. Remove housing and silicone seal.
- Change the batteries. Use only Mignon LR6 (not rechargeable) batteries. Pay attention to correct polarity.
- Replace housing and silicone seal on the base plate.
- Restore power supply for drive.
- Check entire functionality.
 After a battery change, the Protero-868/-915 remains programmed on the
- 10. Dispose of used batteries in accordance with environmental regulations.

Notes on troubleshooting

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Fault	Cause	Remedy
Awning retracts even in the case of small vibrations	Sensitivity settings too low	Set the sensitivity higher
Awning does not retract in the case of vibrations	Sensitivity settings too high	Set the sensitivity lower
Awning does not react to the Protero 868/915 key commands	The Protero -868/-915 is not pro- grammed	Program the Protero- 868/-915
Awning extends instead of retracting in the case of vibrations	The Protero 868/915 is not correctly programmed	Delete and reprogram Protero-868 /-915 cor- rectly
The awning stops twice while ex-tending	The bat- teries are almost depleted	Replace the batteries in the Protero -868/-915
The awning extends briefly, stops, continues extending, stops and the retracts	The Protero -868/-915 is no longer transmitting and may be defective	Replace the batteries in the Protero -868/-915

Cleaning

Clean the device with a damp cloth only. Do not use cleaning agents because they can damage the plastic.

Warranty

Within the legal warranty period, we will remedy any defects caused by material or manufacturing defects by repairing or replacing the unit. Unauthorised modifications will void the warranty.

Service

If malfunctions have occurred or the device has been damaged despite proper handling, contact your dealer or manufacturer. elero GmbH

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Repair

Please specify the item number, item description, type of fault, situational circumstances, presumed cause, unusual events prior to the problem.

Disposal

Batteries and old units may not be disposed of with household waste.

- 1. Dispose of packaging in the recycling bin for cardboard and paper.
- 2. Dispose of old batteries in the recycling bin for used batteries or have a retailer recycle them.
- 3. Dispose of old units at an electronic waste recycling facility or have a retailer recycle