



# Lixa

## Terraced Roof Control

Technical specifications and installation instructions



Preliminary Data Sheet

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# 1. Description

The **Terraced Roof Control Lixa** for shading and lighting cold roof terrace shades consists of a power unit and radio remote control. The power unit has a motor and light connection.

Using the radio remote control Remo 8, the awning can be opened and/or closed from a distance and the lighting on the terrace can be dimmed in 1%-increments.

The dimmer-connection automatically recognises the type of load connected.

## Functions:

- Manual extension and retraction of an awning (230V-drive)
- Manual dimming of lights up to 300 W (minimum load  $\geq 25$  W)
- Automatic load recognition



**Moisture is harmful to the electronic components of the hand-held transmitter. You must therefore:**

- **Not leave it in the rain**
- **Not leave it outside overnight**
- **Protect it from frost**

## 1.1. Scope of delivery/order options

Nr. 60150	Packet with Remo, white <ul style="list-style-type: none"> <li>• Terrace roof control (power unit in surface mount housing)</li> <li>• Radio remote control Remo 8* white/light gray</li> </ul>
Nr. 60151	Packet with Remo, aluminium <ul style="list-style-type: none"> <li>• Terrace roof control (power unit in surface mount housing)</li> <li>• Radio remote control Remo 8* aluminium/graphite (partly painted)</li> </ul>
Nr. 60152	Power unit separate <ul style="list-style-type: none"> <li>• Terrace roof control (power unit in surface mount housing)</li> </ul>

\*incl. battery and magnetic wall bracket with screw covers

## 1.2. Technical Data

### 1.2.1. Power unit

Housing	Plastic
Colour	Gray
Assembly	Surface mount

Protection Class	IP 54
Dimensions	ca. 160 x 80 x 57 (B x H x D, mm)
Ambient temperature	Operational -30...+50°C, Storage -30...+70°C
Operational voltage	230 V AC / 50 Hz
Outputs	1 x drive for awning, 1 x lighting

### 1.2.2. Radio remote control Remo 8

Housing	Plastic
Colour	<ul style="list-style-type: none"> <li>• white/light gray</li> <li>• aluminium/graphite (partly painted)</li> </ul>
Assembly	with magnetic wall bracket
Protection Class	IP 40
Dimensions	Hand-held transmitter ca. 41 x 140 x 21 (B x H x D, mm) Bracket ca. 54 x 150 x 11 (B x H x D, mm)
Weight	ca. 95 g
Ambient temperature	Operational 0...0.50°C, Storage -10...+60°C
Ambient humidity	max. 95% rF, avoid condensation
Operational voltage	3 V-battery Type CR2032
Radio frequency	868.2 MHz
Channels	8

The following norms were consulted in evaluating this product with respect to electromagnetic compatibility:

- EN 60730-1:2000-11 + A1:2004-09 + A11:2002 + A12:2003-09 + A13:2004-09
- ETS 300683 ed. 1:1997-06
- ETS 300220-1:09-2000
- ETS 300220-3:09-2000

The product was tested by an accredited EMC-lab in compliance with the above-named norms.

## 1.3. Operating the radio remote control.

The radio remote control Remo 8 with integrated display and magnetic wall bracket offers an up/down/stop and/or off/on control for eight channels.

The cold roof control is programmed into 2 channels in the Remo 8. The remaining channels can be programmed for other devices that use the Elsner RF-radio:

- RF-relay radio relay (starting at Version 2.0) e.g. for other lights
- Motor control devices RF-MSG e.g. for other shades
- Ventilator WL610, WL305 (starting at Version 4.0) and WFL (starting at Version 2.0)

- Controls WS1000 Colour (starting at Version 1.1.), WS 1 Colour (1.1), Solexa (starting at Version 3.6) and Arexa (starting at Version 3.7)

When the remote control is not in use, it is safely stored in the magnetic wall bracket that comes with it.

### 1.3.1. Operating the radio remote control.



**Programming the Remo 8 at the power unit may only be done by an electrician (acc. to VDE 0100).**

1. Put the hand-held radio transmitter into programming mode by pressing the middle of the +/- button until the letter "L" for the German word "Lernbereitschaft" appears in the display along with a number.
2. Select the hand transmitter channel you want to program (L1 to L8) using the + and - buttons.



**Please note when programming the power unit for the cold roof control that two sequential Remo-channels are always used. If, for example, you program channel 1, the awning will be stored on channel 1 and the light on channel 2.**

3. Press the programming button inside the device using an insulated screwdriver. Now you can control the awning and light using these channels in the hand-held transmitter.

### 1.3.2. Deleting the radio remote control.



**Deleting the Remo 8 at the power unit may only be done by an electrician (acc. to VDE 0100).**

1. Ready the hand-held radio transmitter for deletion. To do this, press the middle of the +/- button until an "L" appears in the display. Press gain until the letter "C" for Clear/Delete appears in the display.
2. Select the hand transmitter channel you want to delete (L1 to L8) using the + and - buttons.



**Please note that when you delete, two sequential Remo-channels are always deleted. If, for example, you delete channel 1, the awning will be delete on channel 1 and the light on channel 2.**

3. Press the programming button inside the device using an insulated screwdriver and the radio connections will be deleted.

### 1.3.3. Operating devices and motors with Remo 8

1. Select the channel in the hand-held transmitter that you want to operate using the buttons + and - .
2. Using the up, down and stop button, you can now operate the assigned device or drive.

#### **Dimming lights using the Remo 8**



Short: Off/On with last dimming value  
Long: Brighter



On / Off



Short: Off/On with last dimming value  
Long: Darker

#### **Extend and/or extend shades with Remo 8**



Short: Short upward movement (incremental operation)  
Long: Automatic travel to end position (normal drive)



Stops travel



Short: Short downward movement (incremental operation)  
Long: Automatic travel to end position (normal drive)

### 1.3.4. Change direction of rotation

If the awning moves downward when the **up**-button is pushed, the rotational direction is set wrong and needs to be changed. The following combination of buttons will communicate your desired change to the awning:



**Press and hold the up button** twice in a row  
each time for longer than 1 second, but shorter than 5 seconds

and then



**press and hold the stop button** twice in a row  
each time for longer than 1 second, but shorter than 5 seconds

The awning will confirm the change of rotational direction with a short up/down-movement.

The rotational direction has now been changed.

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## 2. Installation and start-up

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### 2.1. Notes on installation

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**Warning, mains voltage!**

**National legal regulations are to be observed.**

**Installation, inspection, commissioning and troubleshooting of the device must only be carried out by a competent electrician.**

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Disconnect all lines to be assembled, and take safety precautions against accidental switch-on.

The device is exclusively intended for appropriate use. With each inappropriate change or non-observance of the instructions for use, any warranty or guarantee claim will be void.

After unpacking the device, check immediately for any mechanical damages. In case of transport damage, this must immediately notified to the supplier.



**If damaged, the device must not be put into operation.**

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If an operation without risk may supposedly not be guaranteed, the device must be put out of operation and be secured against accidental operation.

The device must only be operated as stationary system, i.e. only in a fitted state and after completion of all installation and start-up works, and only in the environment intended for this purpose.

Elsner Elektronik does not assume any liability for changes in standards after publication of this instruction manual.

### 2.2. Notes on mounting and commissioning

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Do not open the device if water (rain) might ingress: even some drops might damage the electronic system.

Observe the correct connections. Incorrect connections may destroy the sensor or connected electronic devices.



**The power supply must always remain connected to the main power supply, even when not in use for extended periods (e.g. in winter). This will keep the interior of the housing dry.**

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### 3. Connection diagram

