

# Corlo P RF Solar Radio Rocker Switch

## Technical specifications and installation instructions

Corlo P1 RF, item numbers  
70290 (white/chrome glossy),  
70291 (black/chrome glossy),  
70292 (white/chrome matt),  
70293 (black/chrome matt),  
70342 (white/white matt),  
70343 (black/black matt).

Corlo P2 RF, item numbers  
70294 (white/chrome glossy),  
70295 (black/chrome glossy),  
70296 (white/chrome matt),  
70297 (black/chrome matt),  
70344 (white/white matt),  
70345 (black/black matt).



Supplied without frame

## 1. Description

The **Single switch Corlo P1 RF** and the **Double switch Corlo P2 RF** are solar-operated switches for the Elsner radio protocol RF. As an emergency power supply, an off-the-shelf 3V battery is used. The **Corlo P RF Switch** fit the frames of the Corlo system by Elsner, for which mechanical switches are also available.

### Functions:

- Corlo P1 RF: Single rocker switch (on/off, dimming)
- Corlo P2 RF: Double rocker switch (2x on/off, drive 1x up/down, dimming)
- Power supply via integrated solar cells, emergency power supply via 3V battery

### Suitable for the following devices:

- Building controls WS1 Color and WS1000 Color (from version 1.801)
  - Building controls WS1 Style and (KNX) WS1000 Style (from version 1.801)
  - Radio control system Solexa II
  - Elsner radio modules: RF relays (from version 5.1), motor control units RF-MSG (from version 3.0), dimmer RF-L, RF router
  - Ventilation units: WL400, WL800 (from version 1.1) WL-Z (from version 1.6)
- The software version of the device must be appropriate for interaction with the **Corlo P RF Switch!**

### 1.1. Deliverables

- Switch unit
- 3 V battery, type CR2032

You *also* need (not included in deliverables):

- *Corlo* frame for the installation above a switch socket or *Corlo Plan* frame for an installation directly on the wall (available as a single, dual, or triple frame)

### 1.2. Technical specifications

Material	Glass: Real glass, tempered, Edges: chromed zinc die-casting, Housing: Plastic
Assembly	Surface installation (with Corlo Plan frame)
Colours	<ul style="list-style-type: none"> <li>• White glass, chromed glossy edge</li> <li>• White glass, chromed matt edge</li> <li>• Black glass, chromed glossy edge</li> <li>• Black glass, chromed matt edge</li> <li>• White glass, white matt edge</li> <li>• Black glass, black matt edge</li> <li>• Other colours on request (see "Colours for edges and frame" auf Seite 1)</li> </ul>
Dimensions	Housing in total approx. 80 x 71 x 49 (W x H x D, mm), Mounting depth approx. 12.5 mm
Weight	Switch unit approx. 90 g, single frame approx. 75 g, Dual frame approx 95 g, triple frame approx. 115 g
Ambient temperature	Operation -10...+60°C, storage -20...+65°C
Ambient humidity	max. 95% RH, avoid condensation
Power supply	3 V battery, type CR2032
Wireless frequency:	868.2 MHz

The product is compliant with the provisions of EU guidelines.

### 1.3. Options for personalisation

#### 1.3.1. Colours for edges and frame

The standard colours for the display edge and matching frame are matt chrome and bright chrome. Special paints are possible, e.g. according to RAL or automobile paint colour codes. Please ask for your desired colour.

The glass panel is only available in white or black, no other colours are available.

## 2. Installation and start-up

### 2.1. Installation notes



Installation, testing, operational start-up and troubleshooting of parts of the electrical installation should only be performed by an electrician.

The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

The device may only be used as a fixed-site installation; that means only when assembled and after conclusion of all installation and operational start-up tasks and only in the surroundings designated for it.

Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

### 2.2. Notes on wireless equipment

When planning facilities with devices that communicate via radio, adequate radio reception must be guaranteed. The range of wireless control will be limited by legal regulation and structural circumstances. Avoid sources of interference and obstacles between receiver and transmitter, that could disturb the wireless communication. Those would be for example:

- Walls and ceilings (especially concrete and solar protection glazing).
- Metal surfaces next to the wireless participants (e. g. aluminium construction of a conservatory).
- Other wireless devices and powerful local transmitters (e.g. wireless headphones), which transmit on the same frequency (868,2 MHz). Please maintain a minimum distance of 30 cm between wireless transmitters for that reason.

### 2.3. Assembly

#### 2.3.1. Assembly site and assembly preparations



**The switch must only be installed and operated in dry, indoor spaces. Avoid condensation.**  
Never expose the sensor to water (e.g. rain) or dust.

The standard assembly height for switches is 110 cm above the ground. The **Corlo P RF Switch** may be installed above a socket box or directly on the wall. A **Corlo frame** is used for installation above a socket. When using a dual or triple frame, two or three sockets with a separation of 71 mm must be placed accordingly. A **Corlo Plan frame** is used for an installation directly on the wall. The frames must be installed vertically.

#### Overall dimensions with frame:

Single, approx. 80 mm x 81 mm (W x H),  
Dual, approx. 80 mm x 153 mm (W x H),  
Triple, approx. 80 mm x 224 mm (W x H),  
Mounting depth approx. 12.5 mm

#### 2.3.2. Assembly of frame and switch

The instructions show the installation of the switch with a single frame on a socket. Dual and triple frames are installed accordingly.



Fig. 1  
If the installation is done with a **Corlo frame**, a socket box with 4 screw bosses facilitates installation.

For an installation with the **Corlo Plan frame** no socket is required.

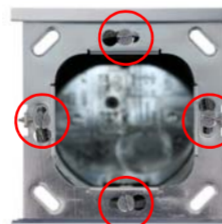


Fig. 2  
Screw the Corlo frame on the socket and/or directly on the wall. Two screws (right/left or top/bottom) are sufficient.

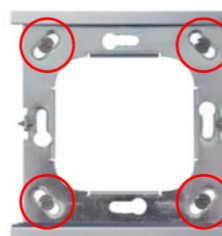


Fig. 3  
In case of installation on a socket:  
In case the screw bosses of the socket used do not correspond to the slotted holes in the frame, the frame may alternatively be screwed on using the outermost four holes (e.g. for sockets of Swiss systems or other installation systems).

Insert the battery (see chapter "Inserting or changing a battery").



Fig. 4  
The switch unit can now be put in place. The movable operation range of the rocket switch(es) must be facing down.  
The switch unit engages on the right and left sides and is also held by magnets.

### 2.3.3. Inserting or changing a battery

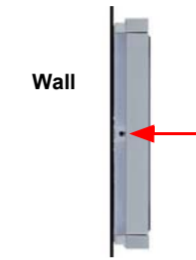


Fig. 5  
To remove the display unit from the frame, press one of the recessed snaplock connections on the side of the switch with a sharp instrument. Now you can pull the switch forward on the unlocked side and remove it.



Fig. 6  
Carefully pry the battery compartment on the rear of the switch open using a screwdriver. Start on the side with the arrow.



Fig. 7  
Pry the flat battery carefully from the bracket. When inserting the new battery, pay attention to the brackets and the polarity (+ must be visible).



Fig. 8  
Then replace the cover of the battery compartment; the arrow must point outward. Press the cover down firmly so that it engages. Place the switch unit into the frame.



**Dispose of the used battery properly – empty batteries should not be thrown away in household refuse.**

## 3. Using a double switch Corlo P2 RF

### 3.1. Modes of use for Corlo P2 RF

A double switch Corlo P2 RF may be used as 1x double switch or as 2x single switches.

If you would like to use the Corlo P2 RF as **wto single switches**, simply treat each key as a separate switch during programming. Follow the instructions for single switches in chapter "Using a single switch Corlo P1 RF" auf Seite 2.

If you are using the Corlo P2 RF as a **double switch** e.g. for up/down or open/close, you may exchange the **key functions ("direction")**. If the switch is used with a WS1 or WS1000 (Color/Style) control, the function is exchanged in the control menu. If you are using Solexa, Arexa, Elsner radio modules or fans, exchanging is organised directly via the switch. Use the following key combinations:

Keep both keys pressed down together for 20 s,  
then release and  
press both keys for another 5 s.

### 3.2. Key functions double switch P2 RF

#### Up/Down:

- Short key stroke = step operation
- Long key stroke = movement operation to final position
- Briefly press opposite direction = stop

**On/Off** key 1 = on, key 2= off

#### Dimming:

- Key 1 briefly = ON with last dimming value.
- Key 1 long = brighter
- Key 2 briefly = OFF
- Key 2 long = darker

The key functions may be exchanged (see "Modes of use for Corlo P2 RF" auf Seite 1).

### 3.3. Programming and clearing double switches

#### 3.3.1. WS1/WS1000 (Color/Style) controls:

##### Learn:

Bring control into learning mode:

- Menu *System* > *Installation* > *Radio connection* > *Learn*.
- Please also follow the instructions in the manual.

Programming a double switch:

- Keep both keys pressed together for 5 to 7 seconds. Release. Press key briefly again.

Control reports:

- Control reports "device programmed".

The **Corlo P2 RF switch** has now been programmed to the control as a double switch. You can assign a name to the switch in the menu *System > Installation > Radio connection > Status* and assign drives and devices.

#### **Clearing:**

Via the control menu *System > Installation > Radio connection > Clearing*. Please also follow the instructions in the manual.

### **3.3.2. Radio modules RF-MSG(-ST), RF relay UP/ST, RF-L, RF router and fan WL400/800, WL-Z**



**WARNING! Electrical voltage!** Programming and clearing may only be carried out by a qualified electrician (according to VDE 0100).

#### **Learn:**

Bring double switch into learning mode:

- Keep both keys pressed together for 5 to 7 seconds. The key is now ready for programming for 15 seconds.

Programme radio module or fan:

- Switch on the power supply of the radio module /fan. The device automatically teaches itself 3 seconds after the power supply is activated.

#### **Clearing:**

Bring control into clearing mode:

- Keep both keys pressed together for 5 to 7 seconds, release briefly and press again for 5 to 7 seconds. The key is now ready for clearing for 15 seconds.

Clear radio module or fan:

- Switch the power supply of the radio module/fan off and on again. The motor control unit will be cleared automatically 3 seconds after the mains voltage is applied.

## **4. Using a single switch Corlo P1 RF**

Double switches Corlo P2 RF may be used as two single switches if each key is programmed individually.

### **4.1. Key functions of single switches**

The switch can now be assigned various functions. If the switch is used with a WS1 or WS1000 (Color/Style) control, the function is assigned in the control menu. If you are using Solexa, Arexa, Elsner radio modules or fans, the function is set directly via the switch:

Function	Description	Procedure
UP arrow	Retract shading, open window and/or switch on device	Keep key pressed for 20 s, then release and press for another 5 s.
DOWN arrow	Move out shading, close window and/or switch off device	Keep key pressed for 20 s, then release and press for another 10 s.
CHANGEOVER SWITCHING	Changeover switching between UP and DOWN with every new key stroke	Keep key pressed for 20 s, then release and press for another 15 s.

### **4.2. Programming and clearing single switches**

#### **4.2.1. WS1/WS1000 (Color/Style) controls:**

#### **Learn:**

Bring control into learning mode:

- Menu *System > Installation > Radio connection > Learn*.
- Please also follow the instructions in the manual.

Programme switch:

- Keep key pressed for 5 to 7 seconds. Release. Press key briefly again.

Control reports:

- Control reports "device programmed".

Once the **Corlo P1 RF key** has been programmed for the controls, you can assign a name to the switch in the menu *System > Installation > Radio connection > Status* and assign drives and devices.

#### **Clearing:**

Via the control menu *System > Installation > Radio connection > Clearing*. Please also follow the instructions in the manual.

### **4.2.2. Radio modules RF-MSG(-ST), RF relay UP/ST, RF-L, RF router and fan WL400/800, WL-Z**



**WARNING! Electrical voltage!** Programming and clearing may only be carried out by a qualified electrician (according to VDE 0100).

#### **Learn:**

Bring switch into learning mode:

- Keep key pressed for 5 to 7 seconds. The key is now ready for programming for 15 seconds.

Programme radio module or fan:

- Switch on the power supply of the radio module /fan. The device automatically teaches itself 3 seconds after the power supply is activated.

#### **Clearing:**

Bring control into clearing mode:

- Keep key pressed for 5 to 7 seconds, release briefly and press again for 5 to 7 seconds. The key is now ready for clearing for 15 seconds.

Clear radio module or fan:

- Switch the power supply of the radio module/fan off and on again. The motor control unit will be cleared automatically 3 seconds after the mains voltage is applied.

## **5. Maintenance and care**

Fingerprints on the glass area and frame are best removed with a cloth moistened with water or a microfibre cloth. Do not use an abrasive cleaning agent or aggressive cleansing agents.

### **5.1. Troubleshooting**

If the device or the drive connected with the switch does not react to the pressing of the key, check the following sources of malfunctions:

1. Ensure that the receiving device (e.g. control, radio module) works. If necessary, restart the device.
2. If the receiving device is found correct, interfering sources might have been added which interrupt radio contact. Remove the switch from the wall and take it near the receiving device. If it works now, install the switch closer to the receiving device or remove the disturbing source.
3. If an interrupted radio reception is not the source of the malfunction, check the general functioning of the switch: Place the switch into a bright room for a few hours. If the switch then functions again correctly, it was kept in a very dark room. Exchange the battery. If necessary, install the switch in a bright area to enable power supply via the solar cells.