GB

30 000 510 - 1

Eltako ELECTRONICS

Wireless actuator FSP1

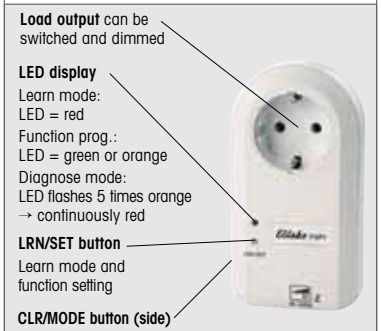
CE

Plug phase cut-off dimmer for German socket outlets.

R and C loads 60-420 W.

This dimmer receiver can be used to switch and dim consumers such as incandescent lamps, HV halogen lamps and electronic transformers. The device has a diagnose function to detect inappropriate consumers (see "Diagnostic function for inappropriate load types"). The receiver is operated with wireless push-buttons and wireless hand-held transmitters.

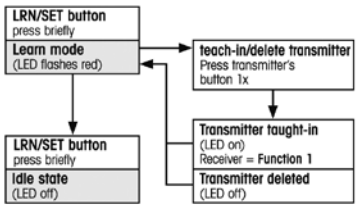
Startup



Teaching-in

The receiver must be connected to the mains to conduct a teach-in, so the intermediate plug must be plugged in.

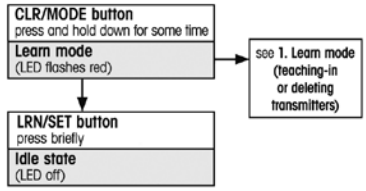
1. Learn mode (teaching-in or deleting transmitters)



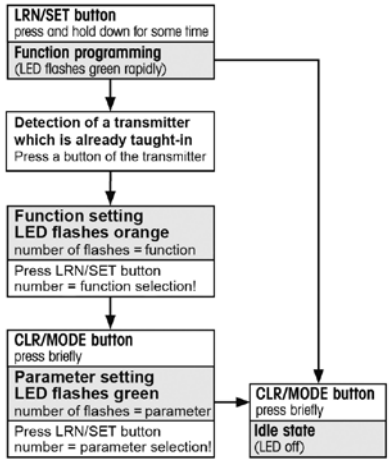
Notes:

- No transmitter is taught-in in the receiver on delivery from the factory.
- Several transmitters can be taught-in (max. 32) or deleted in the learn mode.
- A transmitter is alternately taught-in (LED ON) or deleted (LED OFF) each time the button is pressed!
- The receiver's Function 1 is preset after teaching-in a transmitter in the receiver. If requested set another function and parameter (see 3. Function programming).
- If no action takes place, learn mode will be terminated after 30 s.

2. Deleting all taught-in transmitters



3. Function programming



Transmitter detection	
Press a button of the transmitter	LED flashes orange: transmitter detected Number of flashes: function

Function setting (e.g. function 3)	
LRN/SET button press 3 times	LED flashes 3 times orange: function 3

Parameter setting (e.g. parameter 2)	
LRN/SET button press 2 times	LED flashes 2 times green: parameter 2

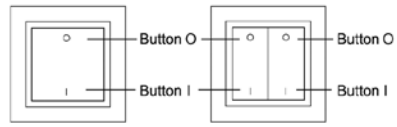
Note!

If no action takes place, function programming will be terminated after 30 s.

Operating and functions

Manual operation of this device is not possible. The receiver is operated with wireless push-buttons and wireless hand-held transmitters. Before use, the transmitters must be taught-in in the receiver (max. 32 transmitters). Every transmitter can control an unlimited number of receivers. The receiver's Function 1 is preset after teaching-in a transmitter in the receiver. It can be changed by function programming.

Functions of the wireless push-buttons FT4 and/or wireless hand-held transmitters FHS8, FHS12 and FMH4



Function 1, direction switches with Memory

When the dimmer is switched on the consumer dims up to the maximum brightness or to the stored dim value (memory value). Standard function after teach-in of the transmitter!

Transmitter	**Function**
Press button I briefly	Switch on with memory value
Press button ○ briefly	Switch off, store dim value (memory value)
Press button I long	Dim up consumer
Press button ○ long	Dim down consumer
Button I or ○, long press/release	Dimming process stops, memory value is stored

Function 2, direction switches without Memory

The brightness of the consumer after switch-on can be adjusted by setting parameters.

Transmitter	**Function**
Press button I briefly	Switch on with parameter
Press button ○ briefly	Switch off
Press button I long	Dim up consumer
Press button ○ long	Dim down consumer
Button I or ○, long press/release	Dimming process stops
Parameters	
1 100 % brightness	
2 10 % brightness	
3 25 % brightness	
4 40% brightness	
5 55 % brightness	
6 70 % brightness	
7 85 % brightness	

Function 3, switch on/off function

Transmitter	Function
Press button I	Switch on
Press button ○	Switch off
Parameters	
1 Switch on with memory value	
2 Switch on with maximum brightness	

Function 4, dim up/down function

Transmitter	Function
Press button I long	Dim up consumer
Press button ○ long	Dim down consumer
Button I or ○, long press/release	Dimming process stops, memory value is stored

Function 5, universal switch with Memory

When the dimmer is switched on the consumer dims up to the maximum brightness or to the stored dim value (memory value).

Transmitter	Function
Press button briefly	Switch on/off with memory value
Press button long	Dim up or dim down consumer
Button long press/release	Dimming process stops, memory value is stored
Parameters	
1 Button ○ is activated	
2 Button I is activated	
3 Button ○ and I are activated	

Function 6, staircase time switch with switch-off early warning

The dimmer starts at maximum brightness level when button I or ○ is pressed. After the set running time (parameter) has elapsed, the brightness is reduced by 50% for a period of 30 s (switch-off warning).
The dimmer switches off after the 30 s period.

Transmitter	Function
Press button I or ○ briefly	Switch on with max. brightness and running time (parameter)
Parameters	
1 2 min running time	
2 1 min running time	
3 5 min running time	
4 10 min running time	
5 20 min running time	
6 30 min running time	
7 60 min running time	
8 120 min running time	

Function 7, Light scenes

Realisation of light scenes with light control using multiple receivers and their taught-in transmitters.

- Teach-in one additional transmitter in each receiver, program Function 7 and set parameter.
- Switch on or dim the required receivers.
- To store the light scene (A-D) press button I or ○ of the previously taught-in transmitter for longer than 2 s. As a confirmation, the output switches off and on.
- One of the four stored light scenes (A-D) is switched on by briefly pressing the button I or ○ of the transmitter.

Transmitter	Function (parameter)
Press button ○ briefly	Switch on light scene A/C
Press button ○ long	Store light scene A/C
Press button I briefly	Switch on light scene B/D
Press button I long	Store light scene B/D
Parameters	
1 button ○ = light scene A, button I = light scene B	
2 button ○ = light scene C, button I = light scene D	

Troubleshooting

New system or existing system

- Check power supply (skilled electrician only).
- Check connected consumers.
- Check the system's surroundings for changes that could cause interference (e.g. metal cabinets, furniture or walls which have been moved).
- If the receiver operates at a reduced distance from the transmitter, the radio signal was encountering interference or it was used outside the transmission range.
- Use the receiver at a better location.
- Clear all taught-in transmitters and teach-in again.

Receiver switches by itself

- This may be caused by operation of an external transmitter that was coincidentally taught-in in the receiver.
- Clear all taught-in transmitters and teach-in again.

Radio signal range limitations

- Use of the transmitter/receiver near to metal objects or material with metal components. A distance of at least 10 cm should be observed.
- Humidity in materials.
- Devices which emit high-frequency signals (e.g. audio and video systems, computers and electronic ballasts). A distance of at least 0.5 m should be observed.

Diagnostic function for inappropriate load types

- LED flashes 5 times orange then remains continuously red.
- Switch-off the device and remove the consumer.
- Separate the device from power supply (pull a plug & socket device from its outlet).
- Insert the plug & socket device into its outlet again for other usage.
- Connect an appropriate consumer (see technical data).

Technical data

Voltage supply	230 V~ / 50 Hz
Number of channels	1
Permissible consumers	Incandescent lamps (Ω)
	HV halogen lamps
	Electric transformers
Minimum load	60 W
Maximum load	420 W
Ambient temperature limits	+10° to +40°C
Certifications	EN 60669-2-1
Protection degree	IP20

Important reminder!

This electrical equipment may only be started by skilled electricians otherwise fire hazard or danger of electric shock exists!

03/2009 Subject to change without notice.