GB

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Eltako ELECTRONICS

Wireless actuator FSM1

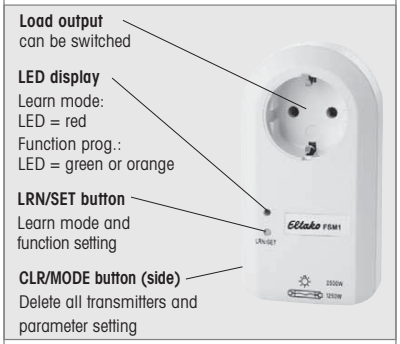
CE

Plug switch with multifunction for German socket outlets

1 NO contact not potential free 10A/250V AC, incandescent lamps up to 2500 watts.

This receiver switches consumers on and off, such as incandescent lamps and HV halogen lamps. The receiver is operated with wireless push-buttons and wireless hand-held transmitters.

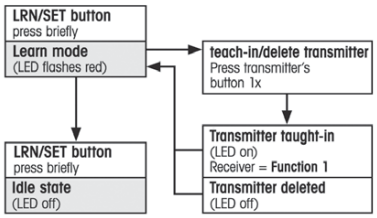
Startup



Teaching-in

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

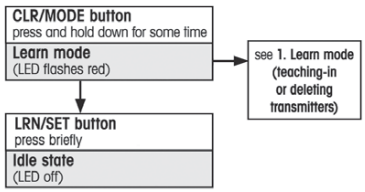
1. Learn mode (teaching-in or deleting transmitters)



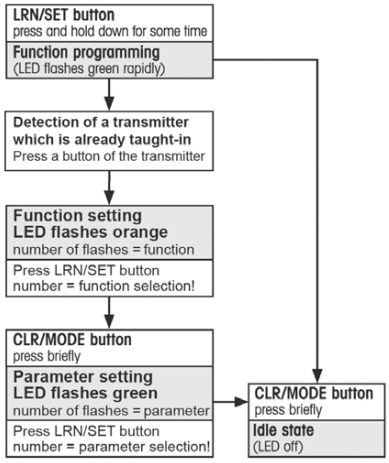
Notes:

- 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 desired set another function and parameter (see 3. Function programming).
- If no action takes place, learn mode will be terminated after 30s.

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

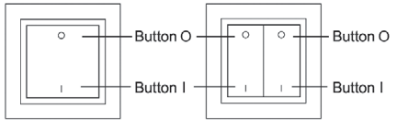
Note!

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

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

Standard function after teach-in of the transmitter and function for motion sensors!

Transmitter	Function
Press button I	Switch on
Press button ○	Switch off

Function 2, universal switches

Transmitter	Function
Press button	Switch over
Parameters	
1 Button ○ is activated	
2 Button I is activated	
3 Button I and button ○ are activated	

Function 3, relay function

Transmitter	Function
Press button	Switch on
Release button	Switch off
Parameters	
1 Button ○ is activated	
2 Button I is activated	
3 Button I and button ○ are activated	

Function 4, staircase time switch with switch-off early warning (resettable)

After the set running time (parameter) has elapsed the light is switched off for 2s (switch-off early warning). Then it is switched on again for 30s.

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

Function 5, impulse switch with release delay

Transmitter	Function
Press button I	Switch-on with running time (parameter)
Press button ○	Switch off
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 6, off-delay timer with operate and release delay

Realisation of illumination with fan control by using two FSM1 and one transmitter. The first receiver is used for light control and the second for fan control.

- Teach-in the transmitter to both receivers.
- Teach-in function for receiver 1 light-control.
- Teach-in function 6 for receiver 2 off-delay timer and set parameters.
- Button I switches the light on. The fan switches on after a time delay of 3 minutes.
- Button ○ switches the light off. The fan is switched off after the set time (parameter) has elapsed.

Transmitter	Function
Press button I	ON-delay (3 minutes)
Press button ○	Activates OFF-delay (parameter)
Parameters	
1 6 min running time	
2 2 min running time	
3 10 min running time	
4 15 min running time	
5 20 min running time	
6 30 min running time	

Function 7, Light scenes

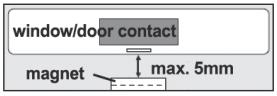
Realisation of light scenes with light control using multiple receivers and their taught-in transmitters.

- Teach-in one additional transmitter in each receiver, program Function 7 and set parameter.
- Switch on 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	

Function 8, window/door contact

Control of the receiver with window/door contacts



wireless window/door contact FTK

- Teach-in window contact with its program button in the receiver (see instructions).
- Teach-in function 8 for receiver and set parameter 8.

Transmitter detection during the function programming process:

- Activate the window contact once with the magnet (also possible before installation).

window/door contact	Function
window/door contact – opened	Switch on
All window contacts and handles – closed	Switch off
Parameters	
1 Window contact function	

Troubleshooting & remedies

New system or existing system

- Check power supply (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.

Technical data

Voltage supply	230 V~ / 50 Hz
Number of channels	1
Ambient temperature limits	+10° to +40°C
Certifications	EN 60669-2-1
Protection degree	IP20

Permissible loads

Incandescent lamps (Ω)	2500 W
HV halogen lamps	1250 W

Important reminder!

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

02/2009 Subject to change without notice.