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Eltako ELECTRONICS

Wireless actuator CE

Socket switching actuator with current measurement FSVA-230V

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:
-20°C up to +50°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

1 NO contact not potential free 10A/250V AC, incandescent lamps up to 2000 watts, ESL and LED up to 400W. With integrated current measurement up to 10A. Bidirectional wireless and repeater function are switchable.
Only 0.7 watt standby loss.

Adapter for German fused safety socket. With increased shock protection.

This wireless actuator features state-of-the-art hybrid technology that we developed: we combined the wear-free receiver and evaluation electronics and a bistable relay.

Apparent power is measured by the integrated current measurement from approx. 10VA to 2300VA when the contact is closed. A wireless telegram is transmitted into the Eltako wireless network within 30 seconds after switching on the load or after a change in power by min. 5% and cyclically every 10 minutes.

Evaluation on the computer with Eltako Wireless Building Visualisation and Control Software GFVS or with energy consumption indicators FEA55LED or FEA55D. FVS-Energy supports up to 100 energy meters and GFVS 3.0 up to 250 energy meters.

Bidirectional wireless and **repeater** function can be switched on. Every change in state and incoming central command telegrams are then confirmed by a wireless telegram.This wireless telegram can be taught into other actuators, the software GFVS 3.0, and universal displays FUA55.

Up to 35 wireless pushbuttons are assigned **with the left button LRN,** either as a universal pushbutton, direction pushbutton or central pushbutton. For the control of extractor hoods or similar items up to 35 wireless window door contacts FTK or wireless Hoppe window handles can be taught-in. Several FTK or wireless Hoppe window handles are linked together.

If a FTK or wireless Hoppe window handle is taught-in, control commands of eventually taught-in pushbuttons are no longer running.

It can be switched on and off manually **with the right button.**

The LED performs during the teach-in process according to the operation manual. It shows wireless control commands by short flickering during operation.

Technical data

Supply and switching voltage	230V/50Hz
Rated switching capacity	10A/250V AC
Incandescent lamps and halogen lamp load[1)] 230V	2000W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500VA
Inductive load cos φ = 0,6	650VA
Energy saving lamps ESL	400W
230V LED lamps	400W
Standby loss (active power)	0.7W

1) Applies to lamps of max. 150W.

* EVG = electronic ballast units;
KVG = conventional ballast units

<u>Teaching-in wireless sensors in wireless actuators</u>

All sensors must be taught-in in the actuators so that they can detect and execute commands.

Teach in universal pushbutton:
Press and hold the left button LRN/CLR for approx. 0.5 seconds and then release. The LED lights up. Press the right button ON/OFF briefly once. The LED flashes once as confirmation. Operate the sensor to be cleared. The red LED goes out.

Teach in direction pushbutton:
Press and hold the left button LRN/CLR for approx. 0.5 seconds and then release. The LED lights up. Press the right button ON/OFF briefly twice. The LED flashes twice as confirmation. Operate the sensor to be cleared. The red LED goes out.
When you press a pushbutton, a rocker is fully taught-in automatically. The side where the pushbutton is first pressed is defined as switch-on and the other side is then the switch-off side.

Teach in central control pushbutton 'ON':
Press and hold the left button LRN/CLR for approx. 0.5 seconds and then release. The LED lights up. Press the right button ON/OFF briefly three times. The LED flashes three times as confirmation. Operate the sensor to be cleared. The red LED goes out.

Teach in central control pushbutton 'OFF':
Press and hold the left button LRN/CLR for approx. 0.5 seconds and then release. The LED lights up. Press the right button ON/OFF briefly four times. The LED flashes four times as confirmation. Operate the sensor to be cleared. The red LED goes out.

Teach-in wireless window door contact:
Press the left button LRN / CLR for approximately 0.5 seconds and then release it, the LED lights. Send a message from the sensor to be taught-in, the LED goes out.

Clear single taught-in pushbuttons:
Press and hold the left button LRN/CLR for approx. 3 seconds. The LED flashes at a high rate. Press the pushbutton to be cleared. The LED goes out.

Clear all taught-in pushbuttons:
Press and hold the left button LRN/CLR for approx. 3 seconds. The LED flashes at a high rate. Press the right button ON/OFF for approx. 5 seconds. The LED goes out.

Exit the learn and clear mode immediately by briefly pressing the LRN/CLR button. The routine exits the learn and clear mode automatically after 60 seconds.

Switch on/off repeater:
Press and hold the right button ON/OFF and plug the FSVA-230V into the socket. Switch repeater on or off. The LED lights up for 2 seconds to indicate the status = repeater off (as-delivered state) or for 5 seconds = repeater on.

Switch on/off confirmation telegrams:
Press and hold down the left button LRN/CLR and the right button ON/OFF together and plug the FSVA-230V in the socket. Confirmation telegrams are switched on and off. The LED lights up for 0.5 seconds = confirmation telegrams OFF (as-delivered state) or for 2 seconds = confirmation telegrams ON to indicate the status.

Confirmation telegrams:
The FSVA-230V sends a feedback message containing its own ID to the Eltako wireless network. The digits 0x70 are sent when the relay is switched on. The digits 0x50 are sent when the relay is switched off.

Teach in confirmation telegrams in other actuators on in the Wireless Building Visualisation and Control Software GFVS:
Press the right button ON/OFF to change the switch position and send the confirmation telegram at the same time.

Teach in FSVA-230V in FEA55 in the Wireless Building Visualisation and Control Software GFVS:
Plug the FSVA-230V in the socket.
A teach-in telegram (0x48080D80), a performance telegram and a switch state telegram are sent.

The actuator may only be used in closed dry rooms.

WEEE registration number DE 30298319

Must be kept for later use!

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