Wireless actuator
Socket switching actuator FSSA-230V

Temperature at mounting location:
0°C up to +35°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

valid for devices from production week 45/22 (see bottom side of housing)

1 NO contact not potential free 10 A/250 V AC, incandescent lamps up to 2000 watts, ESL and LED up to 400 W. Encrypted wireless, bidirectional wireless and repeater function are switchable. Only 0.9 watt standby loss.

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

Supply and switching voltage 230 V.

In case of failure of the supply voltage, the switching state is maintained. The recurrent supply voltage is disconnected in a definite sequence. After plugging wait for short automatic synchronization before the switched consumer is plugged.

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.
You can teach in encrypted sensors. Bidirectional wireless and/or a **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 and the software GFVS

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 window handle sensors FFG7B (EEP F6-10-00) can be taught-

in. Several FTK or FFG7B are linked together.
If a FTK or FFG7B 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	230 V/50 Hz
Rated switching capacity	10 A/250 V AC
Incandescent lamps and halogen lamp load[1] 230 V	2000 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA
Inductive load cos φ = 0,6	650 VA
Energy saving lamps ESL	400 W
230V LED lamps	400 W
Ambient temperature range	0-35°C
Standby loss (active power)	0.9 W

[1] Bei Lampen mit max. 150 W.

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

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

The teach-in memory is empty on delivery from the factory. To ensure that a device was not previously taught-in, **clear the memory completely:**
Press the left button LRN/CLR for approximately 3 seconds, the LED flashes exitedly. Press the right button ON/OFF approximately 5 seconds, the LED goes out. All taught-in sensors are cleared, the repeater and the confirmation telegrams are switched off.

Clear individual taught-in sensors:
Press the left button LRN/CLR for approximately 3 seconds, the LED flashes exitedly. Press the sensor which is to be cleared, the LED goes out.
If all the functions of an encrypted sensor are cleared, teach-in must be repeated as described under *Teach-in encrypted sensors.*

Teaching-in sensors:
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 approx. 0.5 seconds and then release it, the LED lights. Send a message from the sensor to be taught-in, the LED goes out.

Teach-in controller:

Press the left button LRN/CLR about 0.5 seconds and then release, the LED lights up. Send a teach-in telegram from the controller, the LED goes out.

At teaching in, the confirmation telegrams are automatically switched on and sent with their own ID.

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.

To prevent unintentional teach-in, teach in pushbuttons by 'double-clicking' (pressing rapidly twice in succession).

1. Briefly press the left button LRN/CLR button 2 times, the LED blinks 2 times for confirmation.
2. Select the desired teaching-in function with the right button.
3. Press the taught-in button with 'double click'. The LED goes out.

Unencrypted and encrypted sensors can be taught-in.

Teach in encrypted sensors:

1. Press the left button LRN/CLR for approximately 0.5 seconds and then release, the LED lights up.
2. Briefly press the right button ON/OFF 5 times, the LED flashes very excitedly.
3. Enable encryption of the sensor within 120 seconds. The LED goes out.
   Attention! The power supply should not be turned off.
4. Now teach-in the encrypted sensor as described among teaching-in sensors.

If further encrypted sensors should be taught-in, go back to point 1.

With encrypted sensors, use the 'rolling code', i.e. the code changes in each telegram, both in the transmitter and in the receiver.

If a sensor sends more than 50 telegrams when the actuator is not enabled, the sensor is no longer recognised by the enabled actuator and you must repeat teach-in as 'encrypted sensor'. It is not necessary to repeat the function teach-in.

Switch on/off repeater:

Press and hold the right button ON/OFF and plug the FSSA-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 FSSA-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 FSSA-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 or in a controller:

Press the right button ON/OFF to change the switch position and send the confirmation telegram at the same time.
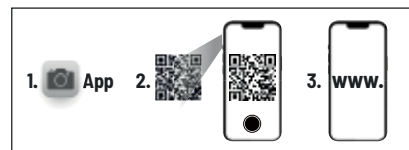
⚠ May only be used in closed dry rooms.
The socket must be easily accessible.
Don't insert in a row.

Manuals and documents in further languages

http://eltako.com/redirect/FSSA-230V

1. 📷 App 2. ▨ 3. www.

enocean®

THE UNIQUE WIRELESS **PROFESSIONAL SMART HOME** STANDARD

Frequency	868.3 MHz
Transmit power	max. 10 mW

Hereby, Eltako GmbH declares that the radio equipment type FSSA-230V is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: eltako.com

WEEE-Reg.-Nr. DE 30298319

Must be kept for later use!

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