

## Wireless actuator



Impulse switch with integrated relay function FSR70S-230V as cord switch

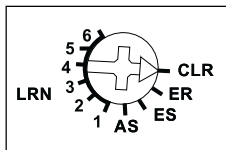
**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

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, energy saving lamps ESL up to 200W. Only 0.8 watt standby loss.  
Installation in power supply cord of standard lamps and bedside lights. 100mm long, 50mm wide and 31mm high.

**This wireless actuator is an impulse switch with integrated relay function and features state-of-the-art hybrid technology that we developed: we combined the wear-free receiver and evaluation electronics and a bistable relay with zero passage switching.**  
By using a bistable relay coil power loss and heating is avoided even in the on mode.

### Function rotary switch



With the rotary switch on the side in the settings LRN up to 35 wireless push-buttons can be assigned, of which one or more central control pushbuttons. In addition, a wireless motion/brightness sensor FBH and/or a wireless outdoor brightness sensor FAH for a presence simulation. The required function of the

impulse switch with integrated relay function can then be selected:

#### ES = Impulse switch

After the FBH is taught-in, the device switches on when movement is detected and, after an additional FAH is taught-in, at twilight and when movement is detected. If no movement is detected, the contact opens after a 4 minute delay.

A wireless switch can only be taught-in additionally to activate or deactivate presence simulation.

#### ER = Switching relay

When FAH is taught-in, the device switches on at twilight. The contact opens after a four minute delay when brightness is detected.

#### AS = Presence simulation

The AS starts with a random pause time of 20 to 40 minutes followed by a random switch-on time of 30 to 120 minutes.

When the rotary switch is turned to AS or when the line voltage is switched on in AS position, the light switches on for 5 seconds after 1 second.

When the FAH is taught-in, the AS only starts when twilight commences. After the FAH detects brightness, the AS ends after 4 minutes.

**The LED on the side** performs during the teach-in process as mentioned in this instruction manual below. It shows wireless control commands by short flickering during operation.

#### Teaching-in wireless sensors in wireless actuators

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

#### Teaching-in actuator FSR70S-230V

The teach-in memory is empty on delivery from the factory. If you are unsure whether the teach-in memory contains something or not, **you must first clear the memory contents completely:**

Set the rotary switch to CLR.  
The LED flashes at a high rate. Within

the next 2 seconds, turn the rotary switch three times away from the left stop (turn clockwise) and then turn back to the stop. The LED stops flashing and goes out after 2 seconds. All taught-in sensors are cleared.

**Clear individual taught-in sensors** in the same way as in the teach-in procedure, except that you set the rotary switch to CLR instead of LRN, and operate the sensor. The LED previously flashing at a high rate goes out.

#### Teaching-in sensors

- Setting of the rotary switch to the desired teaching-in function, then the LED flashes slowly:
    - 1 = teach-in pushbutton 'ON/OFF';
    - 2 = teach-in 'central OFF';
    - 3 = teach-in 'central ON';
    - 4 = Teach-in FBH as motion detector;
    - 5 = Teach-in FAH as twilight sensor;
    - 6 = Teach-in pushbutton to activate and deactivate presence simulation in the ES function position.
  - Operate the sensor which should be taught-in. The LED goes out.
- To teach-in further sensors, turn the rotary switch briefly away from the set position. Continue the procedure from pos 1.

After teach-in, set the rotary switch to the required function.



When an actuator is ready for teach-in (the LED flashes at a low rate), the very next incoming signal is taught-in. Therefore, make absolutely sure that you do not activate any other sensors during the teach-in phase.

#### EnOcean wireless

Frequency	868.3 MHz
Transmit power	max. 10mW

**Hereby, Eltako GmbH declares that the radio equipment type FSR70S-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](http://eltako.com)**

**Must be kept for later use!**

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