



Wireless sensor without wire

Wireless rotary switch

FDT55EB

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-way wireless rotary switch for single mounting 80x80x25 mm over a flush box or mounting into the E-Design55 switching system. With battery (lifetime 2-8 years). Smart Home sensor.

The scope of supply comprises a mounting base with snapped-on electronics, a frame R1UE55 and a cover panel with rotary knob.

All Eltako wireless dimmers can be controlled by this wireless rotary switch, and from week 03/2017, also the wireless switching actuators FSR61, TF61L and TF100L.

The rotary switch sends dimming values (brightness values) to the dimming actuator. At switching off over the rotary switch, this value is stored into it.

If several rotary switches are taught in in the same dimming actuator, and dimming commands are alternatively sent from different ones, it can be that brightness jumps appears during the dimming process.

To teach-in the wireless rotary switch to the actuators, remove the rotary knob.

2 internal 3V CR1632 button cells are supplying the power for several years.

To replace the button cell, just remove the front panel and the rotary knob.

Only assemble on a flat surface:

Screw on mounting base or stick it on using the enclosed adhesive foil. Then snap on the frame, remove the battery insulations, plug on the rotary knob and snap on the front panel.

We recommend stainless-steel counter-sunk screws 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch

boxes. Set of 2 stainless-steel counter-sunk screws 2.9x25 mm and plugs 5x25 mm are enclosed.

Minimum brightness can be adjusted in 3 steps with one jumper. You can also select the soft-on function which switches on the lighting gradually.

Teach-in:

To teach in the wireless rotary switch in the actuators, pull off the rotary knob and the front panel. Press and hold the mini pushbutton (LRN) which is then accessible and briefly press the rotary knob shaft.

Please look on the corresponding actuators manual for the teaching-in position.

Teach-in telegram: 0xE0400D80

If the FDT55EB is taught-in in TF61D, TF100D, TF61L or TF100L, confirmation telegrams are automatically switched on and sent. It locks automatically the teach-in mode.

Enable teach-in mode with FDT55EB:

Plug in the two jumpers on the 4 pins to select the minimum brightness and briefly press the rotary spindle.

Clear rotary switch from actuator:

Plug both jumpers on the 4 pins to select minimum brightness and briefly press the rotary spindle three times.

Then replug the two jumpers to the required positions for minimum brightness and Soft-On.

Press on the middle of the rotary knob

to switch on at the last dimming value or to save the current dimming value and switch off.

Wireless switching actuators FSR61, TF61L and TF100L can be switched on by pressing or turning and switched off by pressing.

Turn to the right (clockwise) to dim up.

The turning speed determines the dim-up speed.

If the dimming actuator was switched off to the right at the start of dimming, switch-on is at minimum brightness followed by gradual dim-up. **This is the children's room circuit.**

If the rotary knob is turned to the right jerkily – with the actuator previously switched on or off – dim-up is rapid to full brightness. This corresponds to the double-click function of a normal direction pushbutton, top.

Turn to the left (anticlockwise) to dim-down to the minimum brightness adjusted on the dimming actuator. The turning speed determines the dim-down speed.

If the rotary knob is turned to the left jerkily, dim-down is rapid to the minimum brightness adjusted on the dimming actuator.

If the dimming actuator was switched off to the left at the start of dimming, switch-on is at minimum brightness followed by gradual dim-up by turning to the right.

To replace the CR1632 button cells, just remove the cover panel comprising the rotary knob.

Set the **minimum brightness** in 3 steps using the Min. Level jumper.

The lowest dimming value of 10% is situated in the as-delivered state (jumper plugged onto the two centre pins).

To reduce the lowest dimming value to 1%, plug the jumper onto the two left pins.

To raise the lowest dimming value to 20%, plug the jumper onto the two right pins.

When the Soft-On jumper is plugged onto the two pins, **Soft-On** is selected and the lighting is switched on gradually.

The crossed-out waste container indicates that batteries may not be disposed with other household or commercial waste.



Attention: Danger of explosion if battery is replaced improperly. Only replace it by an equivalent type!

EnOcean wireless

Frequency	868.3 MHz
Transmit power	max. 10 mW

Hereby, Eltako GmbH declares that the radio equipment type FDT55EB 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

Must be kept for later use!

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