



Wireless actuator
Dimmer switch economy
FDS61E-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%.

Dimmer switch economy, 300W power MOSFET. Automatic lamp detection. With adjustable minimum brightness. Bidirectional wireless function is switchable. Only 0.6 watt standby loss. For installation. 45mm long, 55mm wide, 33mm deep. Universal dimmer switch for lamps up to 300W, dependent on ventilation conditions. Dimmable 230V-LED lamps, additionally dependent on the lamps electronics.

Zero passage switching with soft ON and soft OFF to protect lamps.

Supply voltage and switching voltage 230V. No minimum load.

This dimmer switch is activated by wireless pushbuttons FT and FFT, hand-held wireless transmitters FHS and FMH and remote controls FF8 and UFB (without light scene control).

The brightness level is stored on switch-off (memory).

In case of a power failure the switch position and the brightness stage are stored and may be switched on when the power supply is restored.

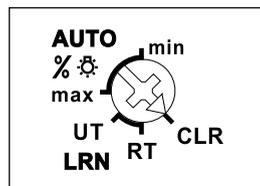
Automatic electronic overload protection and overtemperature switch-off.

Bidirectional wireless is switchable.

Every change in state is then confirmed by a wireless telegram. This wireless telegram can be taught-in in other actuators,

in the GFVS software and in universal displays. The current dimming value is also displayed in % in the GFVS-Software.

Function rotary switches



Use the rotary switch to set the minimum brightness (fully dimmed down) in the range **AUTO**.

AUTO allows the dimming of all light species.

The pushbuttons can be either taught-in as direction pushbuttons or universal pushbuttons: As direction pushbutton (RT) 'switch on and dim up' is on one side and 'switch off and dim down' on the other side. **As a universal pushbutton (UT)** the direction change is made by briefly releasing the pushbutton.

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

Incandescent and halogen ¹⁾ lamps 230V (R)	up to 300W
Inductive transformers (L)	up to 300W ²⁾³⁾
Electronic transformers (C)	up to 300W ²⁾³⁾
Dimmable 230V-LEDs	up to 300W
Max./min. temperature at mounting location	+50°C/-20°C ⁴⁾
Standby loss (activ power)	0.6W

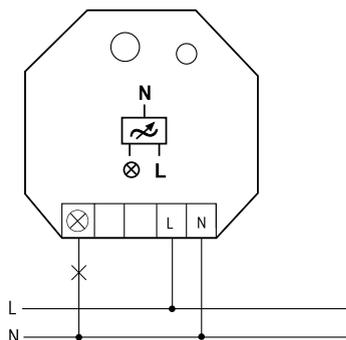
¹⁾ For lamps with 150W max.

²⁾ Per dimmer it is only allowed to use max. 2 inductive (wound) transformers of the same type, furthermore no-load operation on the secondary part is not permitted. The dimmer might be destroyed. Therefore do not permit load breaking on the secondary part. Operation in parallel of inductive (wound) and capacitive (electronic) transformers is not permitted!

³⁾ When calculating the load a loss of 20% for inductive (wound) transformers and a loss of 5% for capacitive (electronic) transformers must be considered in addition to the lamp load.

⁴⁾ Affects the max. switching capacity.

Typical connection



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 FSD61E-230V

The teach-in memory is clear on delivery from the factory. To ensure that a device was not previously taught-in, **clear the complete memory:**

Turn the rotary switch five times to left stop CLR (turn anticlockwise) and away again. The LED lights up for 2 seconds. All taught-in sensors are cleared and the confirmation telegrams are switched off.

Clear single taught-in sensors

Turn the rotary switch to CLR. The LED flickers at a high rate. Press the sensor. The LED goes out.

Teaching-in sensors:

1. Set the rotary switch to the required teach-in function: The LED flickers at a low rate. To find the required position reliably, the LED flash helps as soon as a new setting range is reached when you turn the rotary switch.
UT = Universal pushbutton ON/OFF and dim.
RT = Direction pushbutton, direction pushbuttons are taught-in fully automatically when pressed. Where the

pushbutton is pressed is then defined for switch on and dim up; the other side is then for switch off and dim down.

2. Press the sensor to be taught-in. The LED goes out.

If other sensors are to be taught-in, turn the upper rotary switch briefly away from the position and turn to 1.

After teach-in, turn the rotary switch to AUTO.

Switch on confirmation telegrams:

When delivered ex works, the confirmation telegrams are switched off. Turn the rotary switch 5 times to right stop (turn clockwise) and back again. The LED lights up for 2 seconds. The confirmation telegrams are switched on.

Switch off confirmation telegrams:

Turn the rotary switch five times to right stop (turn clockwise) and away again. The LED lights up for 0.5 seconds. The confirmation telegrams are switched off.

ELTAKO GmbH hereby declares that the products that relates to this operating manual, are in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC. A copy of the EU declaration of conformity can be requested at the address below.

Must be kept for later use!

Eltako GmbH

D-70736 Fellbach
+49 711 94350000
www.eltako.com