

Wireless actuator



Universal dimmer switch without N, FUD6INP-230V

Without N connection, 300W power MOSFET. Only 0.7 watt standby loss. With adjustable minimum brightness and dimming speed. With switching operation for children's rooms and snooze function. Light scenes can be taught-in. Bidirectional wireless and with repeater function. For installation. 45 mm long. 55 mm wide, 33 mm deep.

Universal dimmer switch for R, L and C loads up to 300 watt, depending on ventilation conditions. Automatic detection of load R+L or R+C.

Without N connection, therefore it is suitable for mounting directly behind the pushbutton light switch, even if there is no N wire.

Energy saving lamps cannot be controlled by dimmers without N-connection.

230V local switching voltage and control voltage. Minimum load only 40W.

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

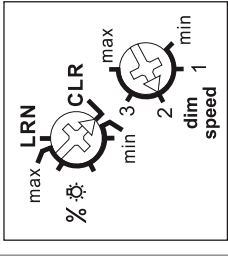
The brightness level is stored on switch-off (memory).

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

Automatic electronic overload protection and overtemperature switch-off.

From production week 23/2011 with **bidirectional wireless communication** and a **repeater** function switch on facility. Every status change and incoming central control telegrams are confirmed by a wireless telegram. This wireless telegram can be taught into other actuators, FUA55 universal displays and the FVS-Software. The current dimming value is also displayed in % in the FVS-Software.

Function rotary switches



The minimum brightness (fully dimmed) is adjustable with the % rotary switch. In the setting LRN up to 35 wireless pushbuttons can be assigned therefrom one or more central pushbuttons.

The dimming speed is adjustable using the **dimming speed rotary switch**. At the same time, the soft ON and soft OFF periods are changed.

In addition to the wireless control input via an internal antenna, this universal dimmer switch can also be controlled locally by a conventional 230V control switch if fitted previously.

The wireless pushbuttons can be taught in either as direction switches or universal switches:

When installed as a direction switch, one side is then 'switch on and dim up' and the other side is 'switch off and dim down'.

A double-click on the switch-on side activates automatic dim-up to full brightness at dim speed. A double click on the switch-off side activates the snooze function. The children's room function is implemented on the switch-on side.

As a universal switch, change the direction by briefly releasing the pushbutton. Short-time control commands switch on/off.

Switching operation for children's rooms (universal switch or direction switch on the switch-on side): If the light is switched on by holding down the pushbutton, it starts at the lowest brightness level after approx. 1 second and dims up slowly as long as the pushbutton is held down without modifying the last stored brightness level.

Snooze function (universal switch or direction switch on the switch-off side): With a double impulse the lighting is dimmed down from the current dimming position to the minimum brightness level and switched off. The current dimming position as well as the adjustable minimum brightness level determine the dimming time (max. = 60 minutes) which can be reduced as required. It can be switched off at any time by short-time control commands during the lighting is dimmed down.

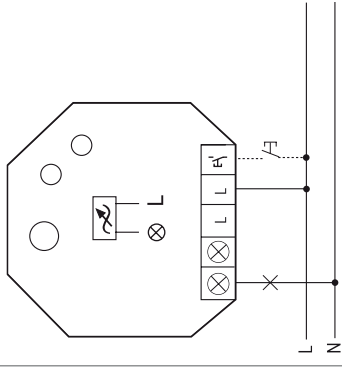
Light scenes on the PC are set and retrieved using the Wireless Visualisation and Control Software FVS. A description of the FVS is at "eltako-wireless.com". One or several FUD6INP devices must be taught in on the PC as dimming switches with percentage brightness values.

Lights scenes with wireless switches are taught in on the FUD6INP device. Up to four brightness values which can be taught-in in light scene pushbuttons with double rocker.

Either an FBH or an FAH can be taught in. If a **wireless motion-brightness sensor FBH** is taught in, the switching threshold at which the lighting with memory value switches on (from approx. 30 lux in the position 'min' to approx. 300 lux in the position '3') depending on the brightness (in addition to the motion) is determined with the lower rotary switch during teach-in. If the FBH is taught in in position 'max', it is only evaluated as a motion sensor. A dropout delay of 1 minute is fixed in the FBH. If a **wireless brightness sensor FAH** is taught in, the threshold at which the lighting switches on or off (from approx. 0 lux in the position 'min' to approx. 50 lux in the position 'max') depending on the brightness is determined with the lower rotary switch. If the brightness threshold is undershot, the memory parameter is used to switch the device on. Switching off takes place at a brightness of > 200 lux.

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

Typical connection



Technical data

Incandescent lamp and halogen lamp load ¹⁾ 230V	up to 300W ²⁾
Local control current at 230V control input	1mA
Max. parallel capacitance (approx. length) of local control lead at 230V AC	0.06µF (200m)
Standby loss (active power)	0.7W
¹⁾ Applies to lamps of max. 150W. ²⁾ Also max. 2 induction transformers of the same type (L load) and electronic transformers (C load).	

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 FUD6INP-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 upper rotary switch to CLR. The LED flashes at a high rate. Within the next 10 seconds, turn the lower rotary switch three times to the right stop (turn clockwise) and then turn back away from 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 upper rotary switch to CLR instead of LRN, and operate the sensor. The LED previously flashing at a high rate goes out.

Teaching-in sensors

1. Setting of the lower rotary switch to the desired teaching-in function:

The flashing of the LED as soon as a new setting range has been reached when turning the rotary switch helps to find the desired position reliably.

Left stop min = Teach in direct light scene pushbutton, a complete pushbutton with double rocker is assigned automatically.

Teach in a PC using the Wireless Visualisation and Control Software FVS. The percentage brightness can be set there between 0 and 100 per cent and saved. Several dimmer switches can be linked to form a light scene.

Position 1 = teach-in 'central OFF';
Position 2 = teach-in universal switch 'dim and ON/OFF';

Universal switches must be taught-in identically at top and bottom if the switch is to have the same function at top and bottom.

Position 3 = teach-in 'central ON';
Right stop max = Direction switches; Direction switches are completely taught-in automatically when operating the top or bottom pushbutton. Otherwise top and bottom must be taught-in in the same way if the top and bottom pushbutton are to have the same function.

2. Set the upper rotary switch to LRN. The LED flashes at a low rate.

3. Operate the sensor which should be taught-in. The LED goes out.
To teach-in further sensors, turn the upper rotary switch briefly away from position LRN. Continue the procedure from pos 1.
After teach-in, set the rotary switches to the required function.

Saving light scenes

Up to four brightness values retrievable with a direct light scene pushbutton can be saved.

- Adjust the required brightness level with a previously taught-in universal pushbutton.
- Press the pushbutton for longer than 3 seconds on one of the four rocker ends of the light scene pushbutton with double rocker to save the brightness value.
- Repeat from point 1 to save further directly retrievable light scenes.

Switching the repeater on and off:

The repeater is switched on or off if the control voltage is applied to the local control input when connecting the supply voltage. The LED lights up for 2 seconds as a status signal when applying the supply voltage = repeater off (as-delivered state) or 5 seconds = repeater on.



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.

Important Note!

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