

Wireless actuator



Controller FSG70/1-10V for
electronic ballast units 1-10V

**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%.

**valid for devices from production week
38/12** (see bottom side of housing)

Dimming actuator 1 channel, 1 NO contact
not potential free 600VA and 1-10V control
output 40mA. With adjustable minimum
brightness and dimming speed. With
switching operation for light alarm clocks,
children's rooms and snooze function.
Bidirectional wireless and with repeater
function. 1.7 watts standby loss.

Mounting in the 230V power supply cord,
e.g. in false ceilings. 100mm long, 50mm
wide and 31 mm deep.

From production week 38/2012

bidirectional wireless and **repeater**
function can be switched on. Every change in state
and incoming central command telegrams
are confirmed by a wireless telegram.
This wireless telegram can be taught-in
in other actuators, in the FVS software
and in FUA55 universal displays.

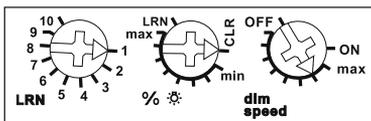
State-of-the-art hybrid technology combines
advantages of nonwearing electronic
control.

**Zero passage switching to protect
contacts.**

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.

Function rotary switches



The minimum brightness (fully dimmed)
is adjustable **with the % rotary switch
on the side**. In the setting LRN up to 35
wireless pushbuttons can be assigned, of
which one or more central pushbuttons.
The dimming speed is adjustable using
**the dimming speed rotary switch on the
side**.

The load is switched on and off by a
bistable relay at output EVG. Switching
capacity for fluorescent lamps or LV
halogen lamps with EVG 600VA.

**By using a bistable relay coil power loss
and heating is avoided even in the on
mode.**

After installation, wait for short automatic
synchronisation before the switched
consumer is connected to the mains.

**The pushbuttons can be taught-in either
as direction pushbuttons or universal
pushbuttons:**

As a direction pushbutton, press up is
brighter and press down is darker
respectively above short pressing means
switch ON and below short pressing
switch OFF. A double click above activates
automatic updimming until full brightness
with dim speed. A double click below
activates snooze function. The children's
room function will be realized with the
upper switch.

As a universal pushbutton, change the
direction by briefly releasing the pushbutton.
With switching operation for children's
rooms and snooze function.

Switching for light alarm clocks: A wire-
less signal of a time clock which was
taught-in accordingly starts the wake up
function by switching on the light at the
lowest brightness level and dims up
slowly until the maximum level is reached.
Dependent on the set dim speed the wake
up time is between 30 and 60 minutes.
The dimming process is stopped by
tapping briefly. The contact of the timer
must connect terminals +12V and LW at
least 0.2 seconds.

Switching operation for children's rooms:

If the light is switched on by holding down
the pushbutton (universal pushbutton or
direction pushbutton above), it starts at
the lowest brightness level after approx.
1 second and dims up slowly as long
as the pushbutton is held down. The last
saved brightness level is not modified.

Snooze function (universal pushbutton
or direction pushbutton below): 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 posi-
tion 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.

**The LED on the side behind the LRN
rotary switch** performs during the teach-in
process according to the operation
manual. It shows control commands by
short flickering during operation.

Technical data

Fluorescent lamp or low voltage halogen lamp with electronic ballast units	600 VA
Standby loss (active power)	1.7 W

Teaching-in wireless sensors in wire- less actuators

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

Teaching-in actuator FSG70/1-10V

Also the mains connection N/L
is required for teach-in.

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 middle rotary switch to CLR. The LED flashes at a high rate. Within the next 10 seconds, turn the left 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, the repeater and the confirmation telegram are switched-off.

Clear individual taught-in sensors in the same way as in the teach-in procedure, except that you set the middle 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. Set the left rotary switch to the required teach-in function:

- 1 = timer as wake-up light;
 - 2 = teach-in 'central off';
 - 3 = universal switch on/off and dim;
 - 4 = teach-in 'central on';
 - 5 = teach-in direction pushbutton: top 'switch on and dim up', bottom 'switch off and dim down';
- Positions 6 to 10 are unassigned.

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

3. Operate the sensor to be taught-in. The LED goes out.

As universal pushbutton, teach-in either the top and bottom pushbutton or as direction pushbutton, operate only top or bottom.

To teach-in further sensors, turn the middle rotary switch briefly away from position LRN. Continue the procedure from pos 1.

After teach-in with the left rotary switch, activate the required function:

- Pos. 1: without switching function for children's rooms and snooze function
- Pos. 2: with switching function for children's rooms
- Pos. 3: with snooze function
- Pos. 4-10: with switching function for children's rooms and snooze function

Use the middle rotary switch to set the minimum brightness.

Use the right rotary switch to set the dimming speed.

Switching on/off repeater:

Set the middle rotary switch to LRN. Switch on supply voltage. The repeater is switched on or off. When the power supply is switched on, the LED lights up for 2 seconds = repeater off (as-delivered state) or 5 seconds = repeater on to indicate the state.

Switch-on confirmation telegrams:

For deliveries ex-works the confirmation telegrams are switched-off. Set the middle rotary switch to CLR. The LED flashes nervously. Now within 10 seconds turn the left rotary switch 3 times to the left (anticlockwise) and then back away. The LED stops flashing and goes out after 2 seconds. The confirmation telegrams are switched-on.

Switch-off confirmation telegrams:

Set the middle rotary switch to CLR. The LED flashes nervously. Now within 10 seconds turn the left rotary switch 3 times to the left (anticlockwise) and then back away. The LED goes out immediately. The confirmation telegrams are switched-off.

Teaching-in feedback of this actuator in other actuators or FVS software:

Use the right rotary switch for turning on and off and simultaneously transmitting of the confirmation telegram.

Teaching-in feedback of other actuators in this actuator:

'Switch on' will be taught-in in position 'central ON'.

'Switch off' will be taught-in in position 'central OFF'.

After teach-in the desired minimum brightness will be set.



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.

For later use!

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