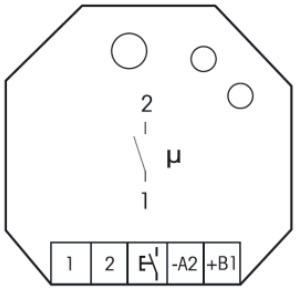
S_FSR61_8-24VUC – Wireless Actuator Impulse Switching Relay

Description:

S_FSR61_8-24VUC

The wireless actuator module type S_FSR61_8-24VUC receives and checks all signals of the wireless transmitter modules and repeaters within its receiveing range. It is possible to teach in up to 35 transmitter modules. The wireless actuator module has also a connectible repeater function.
The wireless transmission is provided via the European harmonised frequency of 868,3MHz. The system is particularly suitable for a flexible building or industrial automation as the expenditure in assembly and installation for a new installation, subsequent installation or reconstruction is being reduced.
The receiver responds when receiving switching commands from binary wireless sensors and switches of different manufacturers whose sensors are based on EnOcean PTM and STM modules.
For the assignment of a switching command from a transmitter to a switching output a one-time teach in of the transmitter is necessary; the filing of the fixed transmitter address is provided in the receiver in a power failure safe manner.
The wireless actuator module has a channel with a potential free NO contact.

Technical Data S_FSR61_8-24VUC:



Operting voltage:	8V-24V DC	
Number of channels (relay outputs):	1 (potential free)	
Number of transmitter modules:	35	
Max. operating current 12V/24V DC:	8 A	
Load data acc. to EN 60669-2-1:	max. 2000 W,	for incandescent lamp load
	max. 2000 W,	for halogen lamps
	up to 400W,	for energy-saving lamps
	max. 650W,	for inductive load
Rated capacity per contact:	16A/250V AC	
Standby loss:	0,3W - 0,9W	
Ambient temperature mounting position:	-20°C...+50°C	
Storage temperature:	-25°C up to +70°C.	
Relative humitidy:	annual mean value <75%.	
Switching frequency:	1000/h	
Life time at rated load, cos φ=1 resp. incandescent lamp 500W at 100/h	100.000 operation cycles	
Degree of protection housing/connections:	IP30/IP 20	
Switching functions:	momentary/maintained, where applicable with optional switch-off delay	
Mounting position:	user-defined	
Kind of connection:	screw connection 4mm²	
Kind of mounting:	in-wall	
Dimensions:	45mm long, 45mm width, 33mm depth	
Approvals:	EN 61000-6-3, EN 61000-6-1 and EN 60669	

Notes as to the Range:

The ranges depend among others on the place of mounting (mounting height and position) and the building structure. The used materials and wall thickness have influence on the quality of the wireless transmission. Thus it is recommended to carry through a test as to the wireless transmission prior to the installation.
A range of up to 30 m is possible within buildings. In the free field ranges of more than 100 m can be reached.

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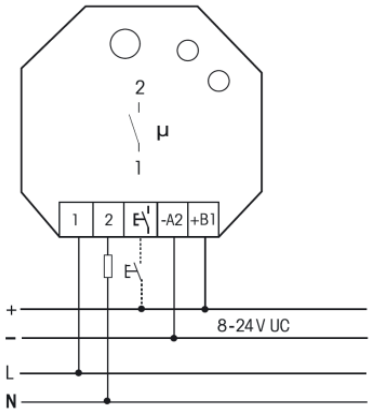
Switching example



Mounting and Operation Manual:

⚠ These units may only be installed by skilled electricians, otherwise there is the risk of fire or electric shock!
The switch status remains in case the power supply fails. In case of recurrent power supply it is switched off as defined.

⚠ All transmitter modules have to be teached in to the wireless actuator in order to operate the teached in functions. Transmitter modules can be teached in to any number of receivers.

Teaching in of a Transmitter Module:

1. Connect the receiver to the power supply.
   At delivery both selectors are in the positions „CLR“ and „2“.
   Turn the lower selector to position „80“ (at delivery on „2“).
   Please only use position „80“, as otherwise the functionality of the receiver can be limited!
   - Activate teach in mode: upper selector on „LRN“, LED is blinking continuously.

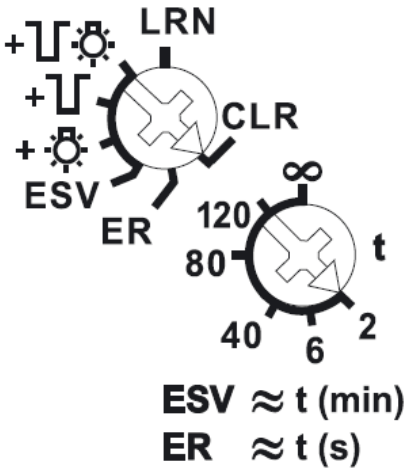
2. Operate transmitter module →LED is no longer illuminated.
   Teach in further wireless pushbuttons as described above (up to 35 wireless pushbuttons).

3. By turning the left selector you now select the function of the pushbutton. **The LED flashs shortly when changing the functions (maintained, momentary).**

   ESV= maintained (switch) ER= momentary

4. If you want to adjust a switch-off delay you can fix the time with the lower selector.
   If you have teached in a maintained function the figures on the lower selector are for the minutes, in case of teached in momentary function the figures are for seconds.

Selector S_FSR61_8-24VUC



Reset of an Individual Wireless Pushbutton:

1. Turn the left selector to „CLR“, LED is blinking continuously.
2. Operate the wireless pushbutton to be teached in, LED is no longer illuminated.
3. Wireless pushbutton is reset.

Reset of all Wireless Pushbuttons:

1. Turn the left selector to „CLR“, LED is blinking continuously.
2. Turn the right selector 3 times to the right up to the stop (clockwise!) and back wihtin 10 seconds, LED is no longer blinking.
3. All wireless pushbuttons are reset at once.

Connectible Repeater Function:

In case there is a control voltage connected on the local control input when connecting the supply voltages connected the repeater is being switched on resp. switched off. For signalling the status the LED is illuminated for 2 seconds when the supply voltage is connected = repeater off (delivery status) or 5 seconds = repeater on. It is a level 1 repeater.

- Subject to alterations -