Operation Manual

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S FSR14-2x - RS485 Bus Actuator

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Description:

The wireless antenna module S_FAM14 receives and checks all signals of the transmitter module and repeaters within its receiving range. Those are transmitted via the RS485 interface to the RS485 bus actuators (S_FSR14-2x). Up to 126 channels can be connected via the bus (the RS485 bus actuator S_FSR14-2x has 2 channels). Up to 118 transmitter IDs (Schlegel transmitter) can be teached in.

The wireless transmission is provided via the European harmonised frequency of 868,3MHz. The system is particularly suitable for 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 sensores 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. A mixed operation of transmittors based on PTM or STM is possible.

One transmitter can be teached in to several channels (1 transmitter to n-outputs; 1:n). Several transmitters can be assigned to one output (n-transmitter to 1 output; n:1). Furthermore, one transmitter can have different functions (maintained, momentary) on two different RS485 bus actuators.

2 (potential free)

16A/250V AC

-20°C...+50°C

-25°C up to +70°C.

annual mean value <75%.

100.000 operation cycles

0.05W-0.5W

The RS485 bus actuator S_FSR14-2x offers two potential free NO contacts for the switching ourtputs.

8 A

Technical Data S_FSR14-X2:

Number of channels (Relay outputs): Number of receiving channels:

Max. switching current 12V/24V DC

(per channel):

Load data acc. to EN 60669-2-1: max. 2000 W, for incandescent lamp load max. 2000 W, for halogen lamps

max. 2000 W, for halogen lamps up to 400W, for energy-saving lamps max. 650W, for inductive load

Rated switching capacity per contact:

Standby loss:

Ambient temperature mounting position:

Storage temperature: Relative humidity:

Switching frequency:

Life time at rated load, $\cos \phi = 1$

resp. incandescent lamp 500W at 100/h

Degree of protection housing/connections:

Switching functions: momentary/maintained, where applicable with

optional switch-off delay Mounting position: user-defined

Kind of connection: screw connection 6mm²

Mounting: mounting rail DIN-EN 60715 TH35
Dimensions: 18mm width, 58mm depth

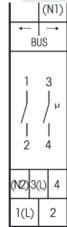
Approvals EN 61000-6-3, EN 61000-6-1 and EN 60669

Accessories:

- S_FAM14 to receive the EnOcean wireless signals (not scope of delivery)
- S_FSR14-2x for expanding the number of channels (1 pce. is scope of delivery)
- 1x plug-in jumper to connect the actuators to the RS485 bus (1 pce is scope of delivery)

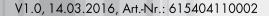
S_FSR14-2X





- Subject to alteraions -

Operation Manual





Mounting and Operation Manual:

⚠ The 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.

↑ The second attached terminating resistor has to be latched to the last R\$485 bus actuator. It is scope of delivery of the type S_FAM14.

⚠ All transmitters have to be teached in to the RS485 bus actuators and their channels, so that they can operate as per their commands.

Teach in of Transmittor Modules:

- 1. Connect the RS485 bus actuator to the S_FAM14 via plug-in jumpers. Latch in the terminating resistor. Connect to the power supply.
- 2. In order to teach in a transmitter module to a channel turn the center selector of the RS485 bus actuator to which you want to teach in the transmitter module to "LRN".
- Then turn the lower selector to the requested channel. The selector may not be in position "Auto" in this case.

 Turn the upper selector to "5" for maintained function or to "10" for momentary function. Actuate the transmitter module you want to teach in.
 - Turn the lower selector to "Auto", the center selector to "Auto 1" and the upper selector to "0".
 - The transmitter module is now teached in and the corresponding channel will be switched if the transmitter module is operated.
- 3. If you want to set a switch-off delay you can adjust the time with the upper selector. In case you have teached in a maintained function the figures on the upper selector are for the minutes, in case of a teached in momentary function the figure is for seconds.
- 4. A transmitter module can only operate the same last teached in function in case of different channels of a S_FSR14-2x. Different pushbuttons can operate different functions on one or on several channels of a FSR14-2x.

Reset of a Transmitter Modules:

Same as for teaching in, but turning the center selector to "CLR" instead of "LRN" and then operate the sensor. The blinking LED goes off.

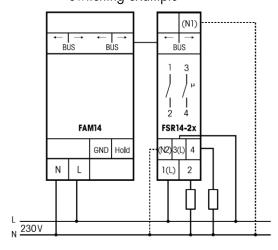
In order to reset a specific channel turn the center selector to CLR1...2 and turn the lower selector to the requested channel. The LED is blinking. Then turn the upper selector 3 times within 10 seconds from the most left position to the most right position.

Reset of the Device Memory:

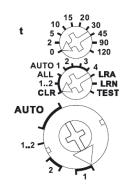
Turn the center selector to "ALL". The LED is blinking. Now turn the upper selector within 10 seconds 6 times from the most left position to the most right position.

The memory of the RS485 bus actuator is reset. All transmitter modules teached in to the RS485 bus actuator have been reset.

Switching example



Selector S_FSR14-2x



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