

S_FRP14 – Wireless Repeater Level1/2

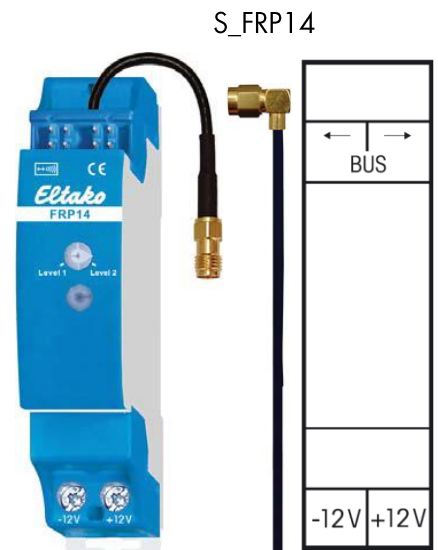
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Description:

The type S_FRP14 can be used as repeater for EnOcean radio signals. By means of repeaters the range of transmitter modules can be increased considerably. There are two different repeaters, level 1 and level 2. Level 1 repeaters repeat the original radio signal of the transmitter modules. Level 2 repeaters repeat radio signals which have been repeated one time already. It is not possible to repeat a radio signal more than two times.

Technical Data S_FRP14:

Power supply voltage:	12V DC
Standby loss:	0,6W
Repeater functions:	Level 1 Level 2
Protocol:	EnOcean 868,3 MHz
Mounting:	mounting rail DIN-EN 60715 TH35
Dimensions:	18mm width, 58mm depth
Ambient temperature on mounting position:	-20°C...+50°C
Storage temperature:	-25°C up to +70°C.
Relative humidity:	annual mean value <75%.



Accessories:

- Wireless antenna (scope of delivery)
- 1x plug-in jumpers to connect to the RS485 bus
- RF magnetic antenna incl. 2.5m connecting cable with SMA connector (Type S_758-910, not scope of delivery)
- 12V switching power supply S_FSNT12V (switching power supply for mounting rail acc. to DIN-EN 60715 TH35)

Notes as to the Range:

This repeater is only necessary in case the structural conditions influence a firm transmission or in case the distance between transmitter module and receiver is too large. By an optimal placing of the antenna the range can be improved considerably.

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.

Mounting and Operation Manual

⚠ The units may only be installed by skilled electricians, otherwise there is the risk of fire or electric shock!
The 1 level mode is activated on delivery. Only signals of sensors and actuators are received, checked and transmitted with full transmission power. Wireless signals of other repeaters are being ignored in order to reduce the data volume. In disconnected condition the 2 level mode can be activated by a selector. Upon connection to the supply voltage the wireless signals of another 1 level repeater are being processed. Thus, a signal can be received and improved maximal two times. Wireless repeaters do not have to be teached in. They receive and improve the signals of all wireless sensors within its receiving area.

The wireless repeater FRP14 can either be used as individual device but then needs a 12V power supply voltage via the switching power supply S_FSNT12V or it is connected to the wireless actuators of the series 14. The cross wiring of the power supply is done by plug-in jumpers. There is no connection to the RS485 bus. The bus is only being looped through.

- Subject to alteraions -