REPEAT485

Isolated RS485 repeater

REPEAT485 enables the connection of more units and can extend the transmission of an existing network.

- **Power supply 24 V DC (10...30 V DC)**

- **Auto switching baud rate from 300 to 115200 bps**

Applications

The RS485 interface is used for EXOline communication. For long-distance communication a repeater can be used to extend the transmission and/or enable the connection of more units to the network.

Limitations

The maximum transfer distance with a REPEAT485 is 1200 m at transmission speeds of 9.6 kbps (400 m at 115.2 kbps). For longer distances, additional repeaters are required.
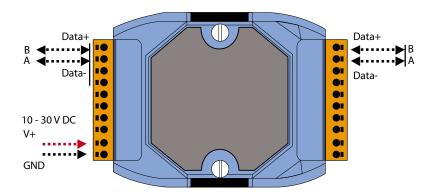
If the repeater is used on an unisolated port, it will result in a decrease in transfer distance.

Installation

Both RS485 cables as well as the 24 V DC power supply are connected to the repeater via removable 10-Pin terminal blocks.

The repeater can, if required, easily be mounted on a DIN-Rail.

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Technical data

Supply voltage	24 V DC (+ 10 V DC - + 30 V DC, non-isolated)
Power consumption	2.16 W
Serial interface RS485	Data+, Data-
Cables	Belden 9841 (2P twisted-pair cable)/Belden 9842 (4P twisted-pair cable), if different cables are used, the transmission distance may change
Baud rate	Automatic switching between 300 and 115200 bps
Isolation	2-way 3000 V DC isolation protection
ESD protection	Yes
LED indicators	Available for Power/communication
Operating temperature	-25...+75°C
Storage temperature	-30...+75°C
Humidity	10...90 % RH, non-condensing
Flammability	Fire Retardant Materials (UL94-V0 Level)
Connector	Plug-in screw terminal block
Material, casing	Plastic
Mounting	DIN-Rail
Dimensions (HxWxD)	122 x 72 x 35 mm
CE	This product conforms with the EMC requirements of European harmonised standards. For the evaluation regarding EMC, certain standards were applied to RFI Emission and Immunity. REPEAT485 carries the CE and RoHS marks.

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