

RS-422/485 Isolated Repeater

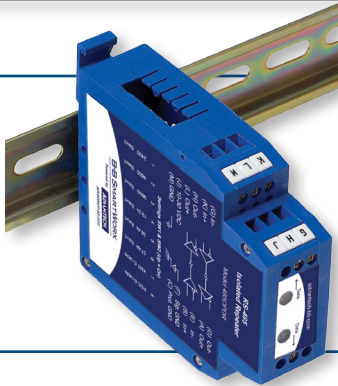
485OPDR

B+B SMARTWORX

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PRODUCT FEATURES

- Extend data up to 1.2 km (4000 ft.)
- 2000V optically isolated data lines
- 600W surge suppression
- -40 to 80 °C operating temperature
- Modbus ASCII/RTU

The 485OPDR is an optically isolated RS-422/485 isolated line repeater that can be used to isolate a piece of equipment from the rest of the network. As a repeater, it extends the distance of an existing network an additional 1.2 km (4000 ft.) and expands it beyond the typical 32-node limitation. Data signals and the power inputs connect to the terminal block. 600W surge suppression ensures that the connected equipment is protected even in the harshest of environments. 2-wire RS-485, 4-wire RS-485 and RS-422 are supported. The repeater operates on externally sourced 10 to 30 VDC power. The enclosure has a DIN rail mount that is designed to fit easily on a standard 35mm rail.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
485OPDR	RS-422/485 2 kV Isolated Repeater

ACCESSORIES

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

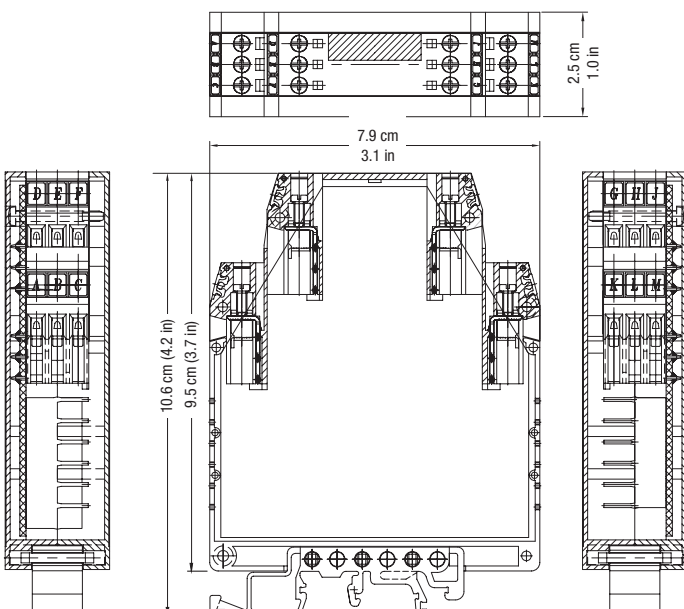
MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

DRPM25 - 35mm DIN rail to panel mount bracket, 25mm wide

EK-CLIP-MPC - DIN rail clip for enclosure

SPECIFICATIONS

RS-422/485	
Connector	Terminal Block
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND RS-422 4-wire, RS-485 2-wire and 4-wire Protected GND on Isolated Side
ISOLATION	
Method	Optical
Rating	2000 V
SURGE SUPPRESSION	
Method	TVS
Rating	6.5V bi-directional avalanche breakdown device 500W peak power dissipation
Response Time	< 1 pico-second
INDUSTRIAL BUS	
	Modbus ASCII/RTU
POWER	
Connector	Terminal block
Voltage	10 to 30 VDC
Power Consumption	0.7 W
TERMINAL BLOCKS	
Wire Size	24 to 14 AWG
Torque	4 kgf-cm
LED INDICATORS	
2 Data LEDs (Red)	Data LED for each side of isolator Flashes when data transmitted
ENCLOSURE	
Material	Plastic
IP Rating	20
Dimensions	2.5 x 7.9 x 9.5 cm (1.0 x 3.1 x 3.7 in)
Mounting	35 mm DIN Rail (Panel Mount Adapter is available)
ENVIRONMENTAL	
Operating Temperature	-40 to 80 °C (-40 to 176 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Operating Humidity	0 to 95% Non-condensing
MTBF	225299 hours
MTBF Calculation Method	MIL217F Parts Count Reliability
Agency Approvals	CE, FCC cULus Recognized, File E222870



All product specifications are subject to change without notice.

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