RS-232 2kV Isolated Repeater

Model BB-232OPDR

B+B SmartWorx
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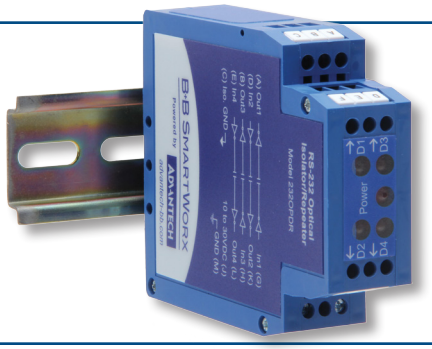

PRODUCT FEATURES

- Extends RS-232 data another 15.2 m (50 ft)
- 2,000V optical isolation on data lines
- Up to 115.2 kbps data rate
- -40 to +80 °C wide operating temperature
- DIN rail mount, IP30 case (panel mount option)
- UL Recognized, NEMA TS2
- 10-30 VDC power (power supply required, not included, sold separately)

Model BB-232OPDR is a DIN rail mountable RS-232 optical isolator and repeater. It provides 2,000 V isolation for four RS-232 signal lines (two in each direction). Isolation protects computer equipment from ground loops and induced currents caused by lightning or heavy electrical loads. It also functions as a repeater to extend RS-232 signals another 15.2 meters (50 ft).

Model BB-232OPDR has four LEDs to indicate data flow and one LED to indicate power. It can support two data pairs or one data pair plus control signals in both directions. Connections are made to a terminal block.

External powering (conntect via terminal block) is required (not included, sold separately).

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BB-232OPDR	RS-232 2kV Isolated Repeater

ACCESSORIES - sold separately

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

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

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

BB-EK-CLIP-MPC - DIN rail clip for enclosure

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SPECIFICATIONS

RS-232	
Connector	Terminal Block
Signals	4 signal lines in each direction. Protected ground on isolated side.
Data Rate	115.2 kbps
ISOLATION	
Method	Optical
Rating	2,000 V
POWER	
Connector	Terminal block
Voltage	10 to 30 VDC
Power Consumption	1.2 W
Source	External
TERMINAL BLOCKS	
Wire Size	24 to 14 AWG
Torque	4 kgf-cm
LED INDICATORS	
Data LEDs (RED)	Data LED for each side of isolator Flashes when data transmitted
Power LED (RED)	ON when power applied

SPECIFICATIONS

ENCLOSURE	
Material	Plastic
IP Rating	IP30
Dimensions	2.5 x 7.9 x 9.5 cm (1.0 x 3.1 x 3.7 in)
Mounting	35 mm DIN (panel mount adapter 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
Meantime Before Failure (MTBF)	244689 hours
MTBF Calculation Method	MIL217F Parts Count Reliability
APPROVALS, DIRECTIVES, STANDARDS	
CE, FCC	
cULus Recognized, UL508 File E222870	

MECHANICAL

Units = inches