## **4850PDRI** Industrial RS-422/485 Isolated Repeater

✓ Supports Data Rates up to 115.2 Kbps
✓ Extends Signal 4,000 feet (1200 Meters)
✓ Wide -40 to 80°C Temperature Range
✓ 10 to 48 VDC Input Power Range
✓ 2000 V 3-Way Optical Isolation
✓ UL Class 1 DIV 2 Listed
✓ Built-in, Switchable Termination & Bias

The 485OPDRI is our premium Industrial Isolated RS-422/485 Isolated Repeater. Designed for rugged industrial environments, it is UL listed and certified for use in Class 1 Division 2 locations. Powerful Optical Isolation on both data ports protects your equipment and data from damaging ground loops and surges. Additional isolation on the power supply circuits adds a third degree of protection.

Packaged in a rugged ABS plastic case, this repeater operates in wide temperature extremes. With a 35mm DIN rail mounting bracket, the 485OPDRI is easy to integrate into your control panel or other industrial equipment.

Installation and configuration is easy with DIP switches to set up baud rate and serial communications mode. Removable terminal blocks make wiring a snap. Power is connected through separate terminal block that accepts 10 to 48 VDC from any external source.

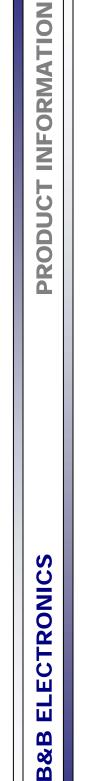
Remember, when it comes to reliable communications in harsh duty industrial locations, B&B Electronics ILinx<sup>™</sup> Brand is you number one choice.

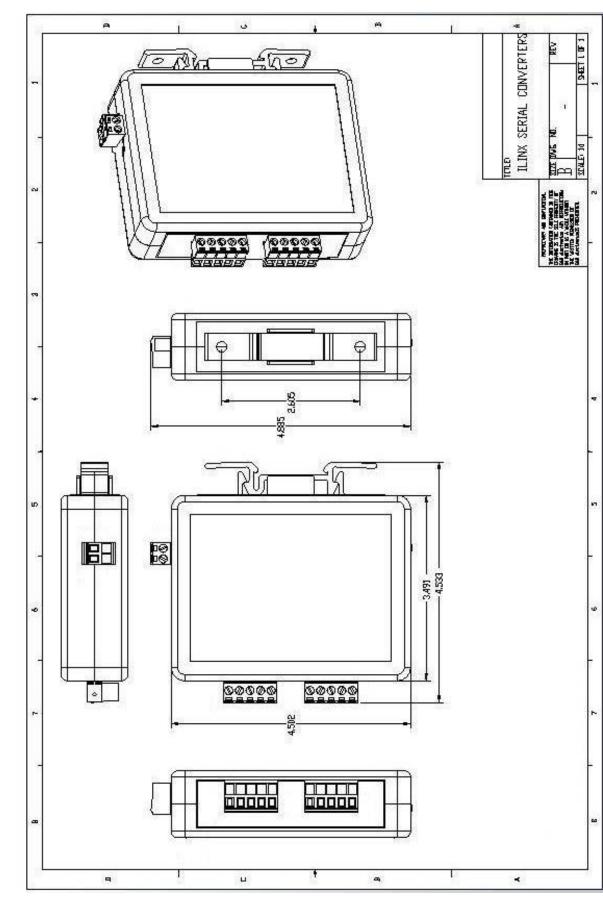


## **Specifications**

Specifications	
Serial Technology	
RS-422 RS-485 4-Wire RS-485 2-Wire Serial Connector Data Rate Isolation Surge Protection Industrial Bus Bias Termination	TDA(-), TD(B+), RDA(-), RDB(+) TDA(-), TD(B+), RDA(-), RDB(+) Data A(-), Data B(+) 5 Position, Removable Terminal Block 2.4 to 115.2 Kbps 2KV RMS, 1 Minute 600 W Peak Power Dissipation Clamping time < 1 pico-second Modbus ASCII / RTU Built-in, Switchable, 1.2KΩ XMT/RCV Built-in, Switchable, 120Ω
Power	
Source Power Connector Input Voltage Power Consumption	External 2 Position, Removable Terminal Block 10 to 48 VDC (56 VDC Maximum) 0.5 W (typical), 1.3 W (termination on both sides)
Terminal Blocks	
Wire Size Accepted Pitch Insulation Resistance Maximum Torque	28 to 12 AWG 5.08 mm ≥500 MΩ @ 500 VDC 5 Kg / cm
Indicators	
Power Data	Red LED Red LED for Each Data Port
Mechanical	
Dimensions Enclosure Weight MTBF MTBF Calc. Method	4.9 x 4.5 x 1.3 in (12.3 x 11.3 x 3.2 cm) IP 20 Plastic, 35 mm DIN Mount 0.49 lbs (222 g) 114696 Hours Parts Count Reliability Prediction
Environmental	
Operating Temperature Storage Temperature Operating Humidity	-40 to 80°C (-40 to 176°F) -40 to 85°C (-40 to 185°F) 0 to 95% Non-condensing
Regulatory	
Approvals UL File	FCC, CE, UL, UL Class 1 DIV 2, Groups A, B, C, D E222870 (HAZLOC E245458)
Ordering Information	
485OPDRI     Industrial RS-422/485 Isolated Repeater       Required but Not Included       Power Supply     MDR-20-24 or PS5R-SC24 (C1 D2)	







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