

Model: 232OPDR  
**Industrial DIN Rail Mounted  
 Optically Isolated RS-232 Repeater**



**Features**

- ✓ **2000 V Optical Isolation.**
- ✓ **DIN Rail Mounted.**
- ✓ **Wide Temperature Range.**
- ✓ **Modbus Compatible.**
- ✓ **Terminal Block Connections.**

**Functional Description**

The 232OPDR is a DIN Rail mountable RS-232 optical isolator. It provides 2KV isolation for four RS-232 signal lines, two in each direction. The isolator has four LED's to show data flow and one LED to indicate power. Connections are made to a terminal block. The 232OPDR is ideal for industrial environments. The 2000 V isolation provides protection for computer equipment from ground loops and induced currents caused by lightning, heavy equipment, or high voltage power lines. Additionally, the isolator can act as a repeater to extend RS-232 signals beyond 50 feet. The signal lines support either two data lines in each direction, or one data line and one handshake line in each direction.

**Ordering Information**

Model Number	Description
232OPDR	RS-232 2-way optical isolator / repeater
Accessories	
PS5R-A12	DIN Rail Power Supply, 12 VDC
PS5R-A24	DIN Rail Power Supply, 24 VDC



**International Headquarters:** 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA  
 815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**European Headquarters:** Westlink Commercial Park Oranmore Co. Galway Ireland  
 +353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-europe.com](mailto:orders@bb-europe.com) [support@bb-europe.com](mailto:support@bb-europe.com)  
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Figure 1 – Mechanical Drawing

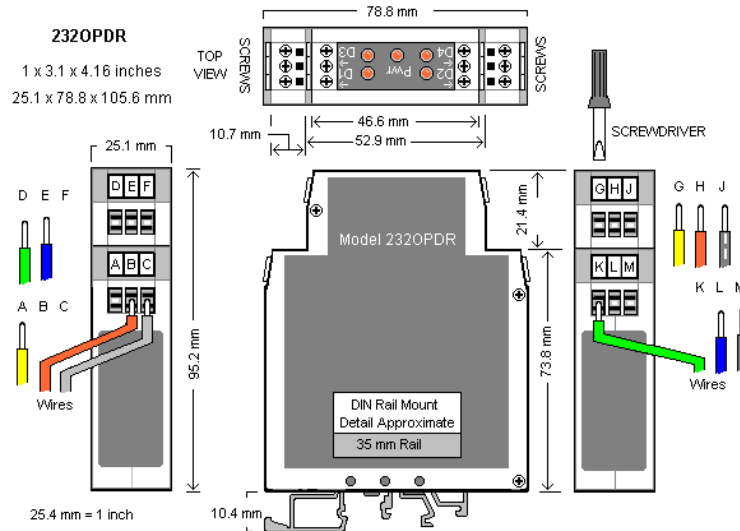
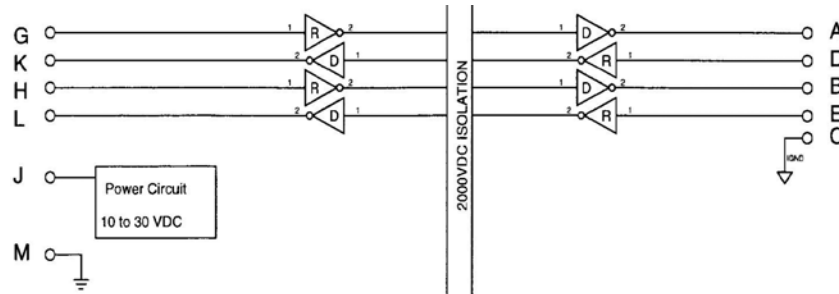


Figure 2 – Block Diagram



Specifications

Dimensions	25x79x106mm (1x3.1x4.2 in)
Temperature Range	-40 to +80 C (-40 to 176 F)
Input Power	+10 to 30 VDC
Data Rate	Up to 115.2 kbps
Connectors	Terminal Block
Isolation	2000 V
LED Indicators	4 Data Flow, 1 Power

DECLARATION OF CONFORMITY

Manufacturer's Name: B&B Electronics Manufacturing Company  
 Manufacturer's Address: P.O. Box 1040  
 707 Dayton Road  
 Ottawa, IL 61350 USA  
 Model Numbers: 232OPDR  
 Description: Industrial RS-422/485 Isolator/Repeater  
 Type: Light industrial ITE equipment  
 Application of Council Directive: 89/336/EEC  
 Standards: EN 55022  
 EN 61000-6-1  
 EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)

*Michael J. Fahrion*

Michael J. Fahrion, Director of Engineering



International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA  
 815-433-5100 Fax 433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com

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