



## Model 9SPOP2 9-Pin RS-232 to RS-232 Port-Powered Optical Isolator

Model 9SPOP2 optically isolates both the RS-232 transmit and receive lines. The isolator has a DB9S female connector on the DTE side and a DB9P male connector on the DCE side. Signals pass through the isolator as shown below.

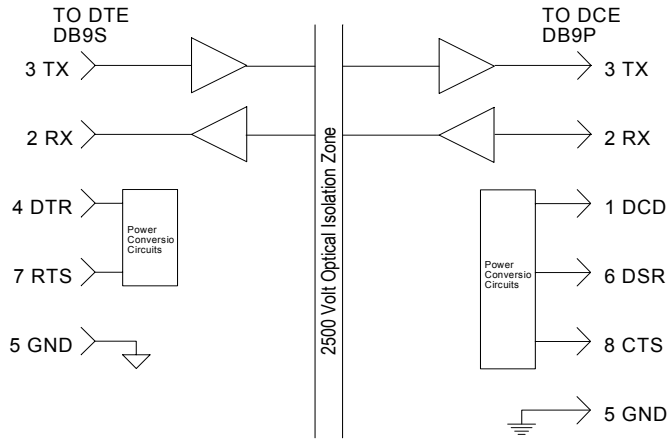
When connecting the Model 9SPOP2, it is recommended that all signals that are outputs be connected. The Model 9SPOP2 derives power from these signals, even if they are not used by your system.

On a DTE device with a DB9 pin connector, the following lines are outputs:

- 3-TX (Transmit)
- 4 DTR (Data Terminal Ready)
- 7 RTS (Request To Send)

On a DCE device with a DB9 pin connector, the following lines are outputs:

- 1 DCD (Data Carrier Detect)
- 2 RX (Receive)
- 6 DSR (Data Set Ready)
- 8 CTS (Clear To Send)



Typical DTE devices include PCs, terminals, and printers. Typical DCE devices include modems and multiplexers. Most DTE ports are male and most DCE ports are female. If the 9SPOP2 is inserted into a working system, it will only pass signals if inserted correctly. If the devices communicate with each other without the 9SPOP2 inline, but not when it is installed, simply reverse the isolator.

If your port meets the low voltage requirements of RS-562, you will not be able to use this isolator. An RS-562 port will only produce about 3.7 volts, which is not adequate to power the isolator. Typically the only devices that have this type of port are palmtop or very low power laptop computers.

**NOTE: Connecting an external power supply to the handshake lines may damage the isolator. Contact technical support for more information on connecting an external power supply to the handshake lines.**

**Specifications**

Transmission Mode:	Asynchronous, half or full duplex, point-to-point RS-232
Interface:	RS-232
Signals Supported:	Transmit Data, Receive Data
Data Rates:	0 to 115.2K bps
Power Requirements:	Port-powered from RS-232 data and handshake lines.
Isolation:	2500V RMS isolation for 1 minute
Dimensions:	2.4L x 1.3W x 0.66H in (6.1L x 3.3W x 1.7H cm)

**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 Number:	9SPOP2
Description:	2-Channel RS-232 Optical Isolator
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)

**CE**

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