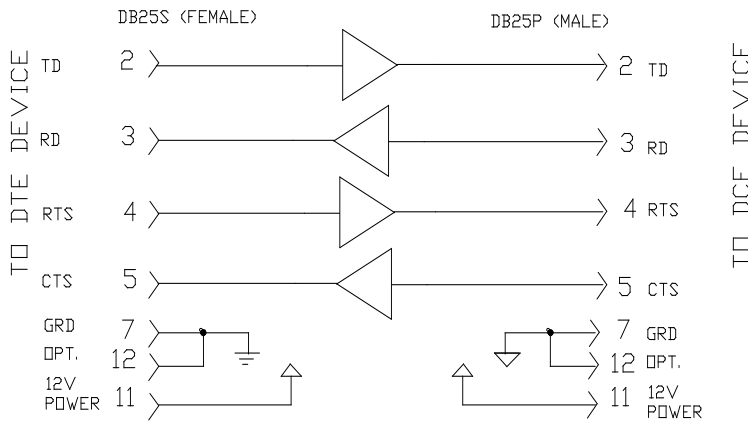




## RS-232 to RS-232 Port-Powered Optical Isolator

### MODEL 232SPOP4

The Model 232SPOP4 optically isolates four RS-232 lines. The isolator has a DB25S female connector on the DTE side and a DB25P male connector on the DCE side of the isolator. Signals pass through the isolator as follows:



When connecting the Model 232SPOP4 it is recommended that all signals that are outputs be connected. The Model 232SPOP4 derives power from these signals, even if they are not used by your system.

On a DTE device, with a DB25 pin connector, the following lines are outputs:

TD(2), RTS(4), DTE READY(DTR) (20)

On a DCE device, with a DB25 pin connector, the following lines are outputs:

RD(3), CTS(5), DCE READY(DSR) (6), RLSD(CD) (8)

On a DB9 pin IBM compatible computer with a standard serial port the outputs are:

TD(3), RTS(7), DTE READY(DTR) (4)

If you don't know if your ports are DTE or DCE disconnect the cables and connect a breakout box. Connect the breakout box to only one port at a time. When the output lines are in the idle condition, they will indicate a negative state. If the output lines are in a constant active condition, they will indicate the positive state. If the lines are inputs, the LEDs on the breakout box will not light.

If your port meets the low voltage requirements of RS-562, you will need to externally power the isolator. An RS-562 port will only produce about 3.7 volts, which is not adequate to power the isolator. Probably the only devices that will have this type of port are notebook computers or very low power laptop computers. To externally power the isolator connect each side of the isolator to a separately isolated +12 V power supply (30 ma). Connect +12 VDC to pin 11 and Ground to pin 12 on one side of the isolator to one power supply. Connect +12 VDC to pin 11 and Ground to pin 12 on the other side of the isolator to the second power supply.

**NOTE: When using an external supply, the supply should be connected only to specifically labeled power inputs (power jack, terminal block, etc.). Connecting an external power supply to the handshake lines may damage the unit. Contact technical support for more information on connecting an external power supply to the handshake lines.**

**Specifications:**

Dimensions: 3.06"L x 2.14"W x .80"H  
 Temperature Rating: 0°C to 70°C  
 Data Rate: Up to 38.4K baud  
 FCC Approved Class A



