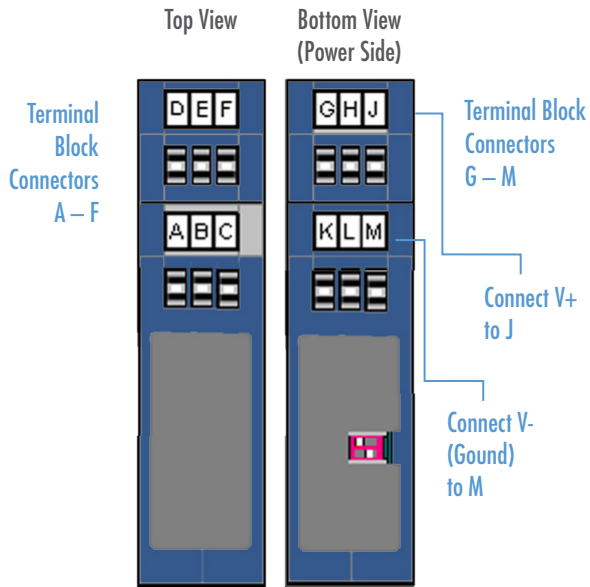


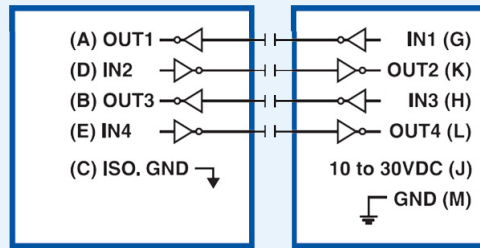
Product Overview



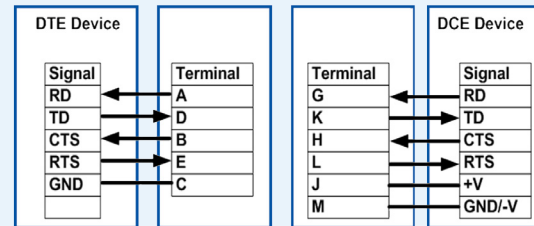
10 to 30 VDC, 1.2 W

1 Connect Your Device

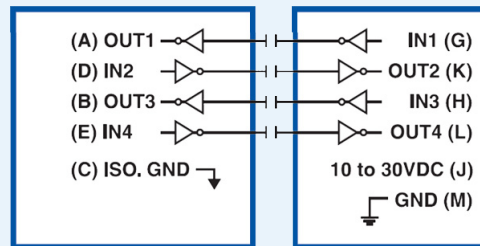
Terminal Block	Signal
A	Output 1
B	Output 3
C	Isolated Ground
D	Input 2
E	Input 4
F	Not Connected
G	Input 1
H	Input 3
J	10 to 30 VDC
K	Output 2
L	Output 4



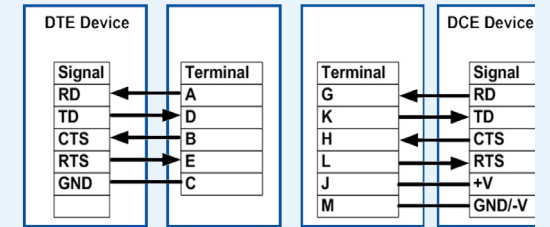
RS-232 Isolated Repeater - Two sets of data lines without control signals



RS-232 Isolated Repeater - Two sets of data lines with control signals

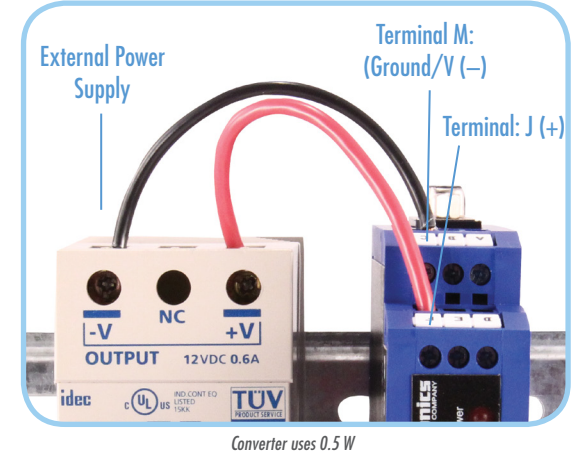


RS-232 Isolated Repeater - Two sets of data lines with control signals

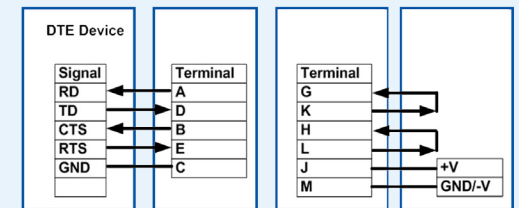


RS-232 Isolated Repeater - Two sets of data lines with control signals

2 Connect Your Power Supply



3 Test Setup



Connect a PC to the DTE side. Place a jumper between Terminal G & K and Terminal H & L. Using HyperTerminal or similar program, connect to the appropriate COM port. Turn off Hyper Terminal local echo. Transmit data. The same data should be returned. Data LED will indicate data being transmitted.

Troubleshooting

Connecting two devices using RS-232.

Usually inputs are connected to inputs and outputs to outputs. People don't realize that there are two types of RS-232 ports, DTE and DCE type, and that the signal names and pin numbers are the same, but signal flow is opposite. The pin labeled Tx can be input, and Rx can be output.

The two ports types are complementary. The Output signals on a DTE port are Inputs to a DCE port, and Output signals on a DCE port are Inputs to a DTE port. The signal names match each other and connect pin for pin.

UL Installation Information

Underwriters Laboratories Conditions of Acceptability – When installed in the end-use equipment, consideration should be given to the following:

1. The wiring terminals are suitable for factory wiring only.
2. This device is to be mounted in a suitable enclosure in the end-product.
3. This device is suitable for operation at a maximum surrounding air temperature as described in the documentation.
4. These devices are intended for use in a pollution degree 2 environment.

- Input Voltage: 10 – 30 VDC
- Input Power: 1.2 Watts
- Wire Range: 12 – 24 AWG
- Tightening Torque: 4 kgf-cm
- Temperature rating of field installed conductors is 105 C minimum, sized for 60 C ampacity.
- Use copper wire only
- Maximum surrounding ambient air temperature 80 C.

Recommended Accessories

MDR-40-24

Power Supply

<http://www.bb-elec.com/Products/Power-Supplies-Accessories/DIN-Power-Supplies/Industrial-Slimline-Power-Supplies.aspx>

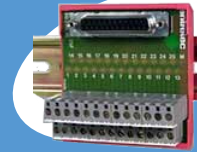


DR25FTB

Terminal Block to DB25

Female DIN Rail Mountable Adapter

<http://www.bb-elec.com/Products/Power-Supplies-Accessories/Serial-Cables/DIN-Mount-Adapters.aspx>



Fast, Easy Answers...

- Please double check Step 3.
- You can also use your smart phone to access complete documentation on our website. Simply scan code to the right.



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B&B ELECTRONICS

QUICK
START
GUIDE



232OPDR

Optically Isolated
RS-232 Repeater

✓ First Things First...

Before you begin, be sure you have the following:

- 232OPDR
- Additional items **required** but not included:
 - Power Supply
(10 to 30 VDC, 1.2 W)
 - Serial Cable



Fast and easy on the web: www.bb-elec.com