

# Quick Start Guide

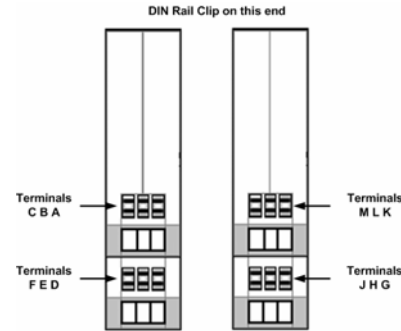
## 232OPDR

### Optically Isolated RS-232 Repeater

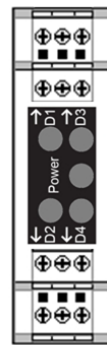


3

### Information – Connectors & Indicators



| 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        |
| M              | GROUND          |



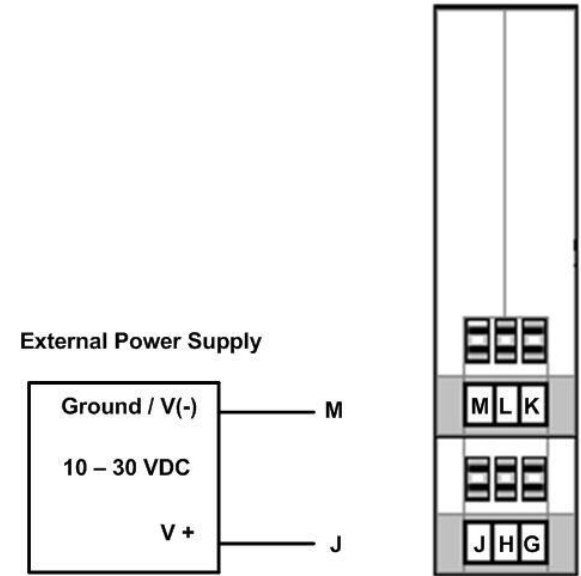
| LED | Flash               |
|-----|---------------------|
| D1  | Data Out Terminal A |
| D2  | Data Out Terminal K |
| D3  | Data Out Terminal B |
| D4  | Data Out Terminal L |

LED's are RED  
 Power LED is ON when power applied

If control signals are used, associated data LED will be ON when the signal is high

4

### Power Connection



Isolated Repeater uses 1.2 W

1

### Check for All Required Hardware

- ❑ 232OPDR Optically Isolated Repeater
- ❑ This Quick Start Guide
- ❑ Additional Items Required but not included
  - Power Supply (10 to 30 VDC, 1.2 W)
  - Serial Cable.

2

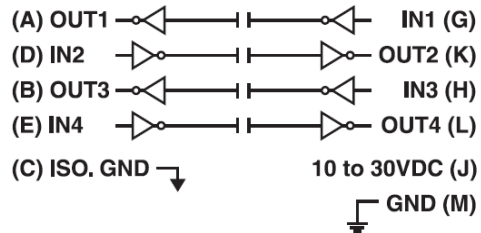
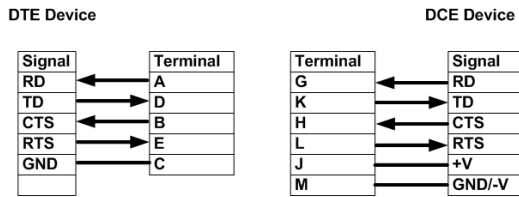
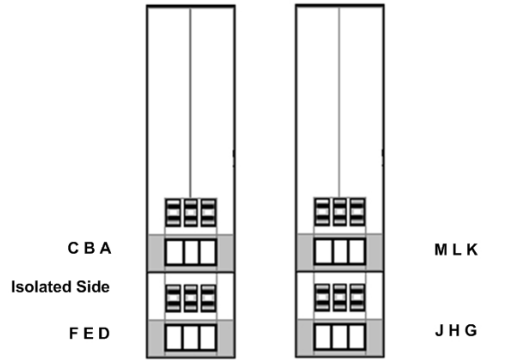
### UL Installation Information

- 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.

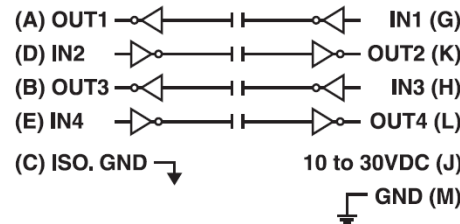
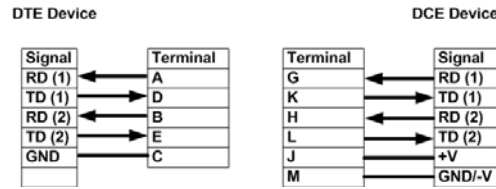
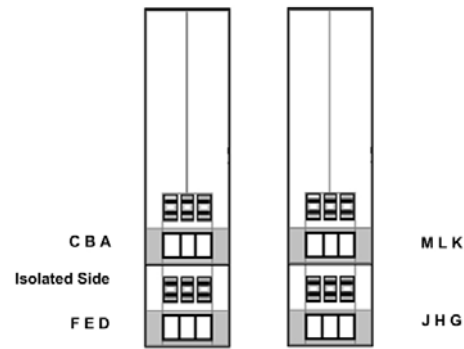
5

**RS-232 Isolated Repeater with Control Signals**



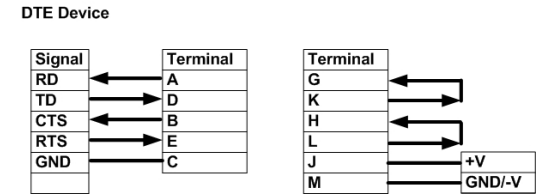
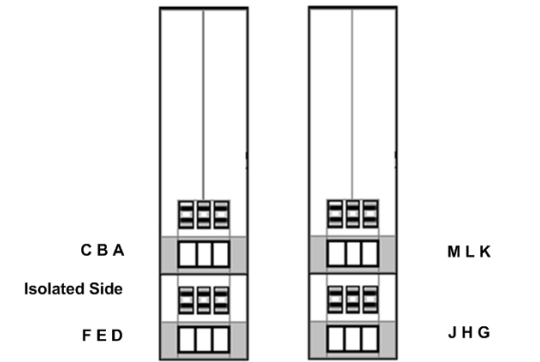
6

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



7

**Test Setup**



- Connect a PC to the DTE side.
- Place a jumper between Terminal G & K and Terminal H & L
- Using hyper terminal 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 (see step 2).