

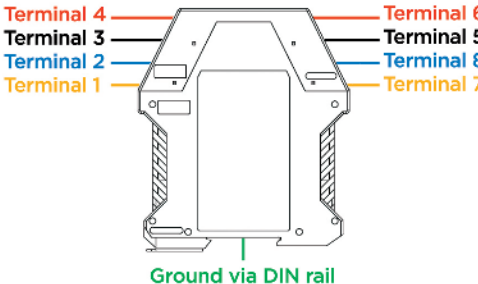
Overview

The ZeroDT I/O series is intended for the following applications; 24VDC, 4-20mA current loops, RS-232, RS-485 data loops. It provides four independent overvoltage protection lines to be configured as needed (not to exceed 8 amps per line).

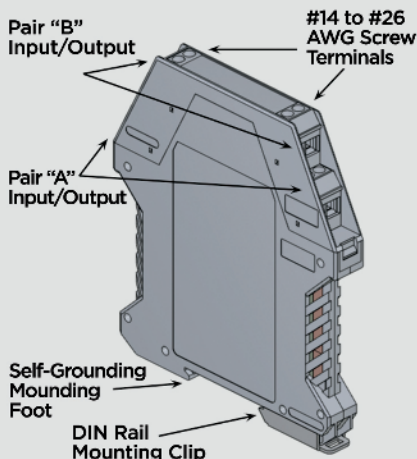
Installation Procedure

- 1 For maximum overvoltage protection mount the ZeroDT I/O-24 as close as possible to the desired protected equipment.
- 2 The ZeroDT I/O-24 uses a self-grounding mounting foot designed to fit standard 35mm DIN rail. **DIN RAIL MUST BE PROPERLY BONDED TO A LOW RESISTANCE EARTH GROUND FOR PROPER OVERVOLTAGE PROTECTION.**
- 3 The ZeroDT I/O-24 unit is to be installed in accordance with the applicable requirements of the National Electrical Code and the local authorities having jurisdiction.
- 4 Wiring Installation: Terminate either DC power or data/signal loop conductors to the screw terminals provided on the module according to the following legend below:(NOTE: Screw terminals are compatible with #14-#26 AWG.)

The ZeroDT I/O-24 allows either side of the module to be the Input or the Output (module orientation does not matter).


Terminal 4 (red)
Terminal 3 (blue)
Terminal 2 (blue)
Terminal 1 (yellow)
Terminal 6 (red)
Terminal 5 (black)
Terminal 8 (blue)
Terminal 7 (yellow)

Ground via DIN rail
- 5 When wiring a shielded cable, use feed thru terminal blocks to secure the shield for each loop.
- 6 In the unlikely event that the ZeroDT self-sacrifices, DC power and communications will be interrupted (unit is designed to fail with lines shorted to Ground).



Maximum Line Current: 8 Amps per line

Maximum Continuous Operating Voltage: 36 Volts DC

Ambient Temperature Range: -40°C to +65°C.

This equipment is suitable for use in Class 1, Division 2, Groups A, B, C, or D (T6) as well as in non-hazardous locations.



WARNING EXPLOSION HAZARD

Do not disconnect equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.



Isolated Loop Protector
E499683

Isolated Loop Circuit Protector
For Use In Hazardous Locations
E502612



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