

Galvanic Isolator

MTL5561



Features

- ▶ Simple installation onto standard DIN railing
- ▶ Simplified installation and maintenance using plug-in connectors.
- ▶ Input circuit protected against reverse polarity
- ▶ Supports two zones

Description

Model MTL5561 is a zone-powered, two-channel interface for use in conventional fire detection systems for protection within hazardous areas.

In operation, the triggering of a detector causes corresponding change in the safe-area circuit. The unit has reverse input polarity protection, while 'non-fail' earth fault detection on either line can be provided by connecting an earth leakage detector to terminals 3 or 6. Certified for use in Zone 0, IIC, T4-6 hazardous areas.

| Specification | |
|---|--|
| Ordering Code | MTL5561 |
| Maximum voltage of Zener diode when fuse blows | 28 V |
| Minimum value of terminating resistor | 300 Ω |
| Maximum short-circuit current | 93 mA |
| Number of channels | 2 |
| Current Range | 1 to 40 mA, nominal |
| Response Time to step input | Settles to within 5% of final value within 1.5 ms |
| Maximum Output Voltage in hazardous area | 28 V (from 300 Ω) |
| Transfer Accuracy at 20°C | Better than 400 μ A |
| Temperature Drift | <40 μ A/ °C (0 °C to 60 °C), <15 μ A/ °C (-20 °C to 0 °C) |
| Loop Supply Voltage | 6 to 30 V dc |
| Quiescent safe-area current at 20°C (hazardous area terminals open circuit) | <400 μ A at V_{in} = 24 V dc per channel |
| Operating Temperature Range | -20 °C to + 60 °C (continuous working) |
| Storage Temperature Range | -40 °C to + 80 °C |
| Maximum Humidity | 95%RH - Non Condensing (at 40 °C) |
| Weight (g) / Dimensions (mm) | 143 / H124 x W105 x D16 |
| Mounting Methods | DX070, SMB-2 or SMB-3 Enclosures |

FURTHER INFORMATION: www.mtl-inst.com