

# 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 μA
Temperature Drift	<40 μA/ °C (0 °C to 60 °C), <15 μA/ °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 μA at Vin = 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

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