

# Galvanic Isolator

## MTL5561



### Features

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

### 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.

<b>Specification</b>	
Ordering Code	MTL5561
Safety Description:	
Maximum voltage of Zener diode when fuse blows	28V
Minimum value of terminating resistor	300Ω
Maximum short-circuit current	93mA
Number of channels	2
Current Range	1 to 40mA, nominal
Response Time to step input	Settles to within 5% of final value within 1.5ms
Maximum Output Voltage in hazardous area	28V (from 300Ω)
Transfer Accuracy at 20°C	Better than 400μA
Temperature Drift	<40μA/°C (0°C to 60°C), <15μA/°C (-20°C to 0°C)
Loop Supply Voltage	6 to 30V dc
Quiescent safe-area current at 20°C (hazardous area terminals open circuit)	<400μA at Vin = 24V 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 Method	DX070 Box
<b>FURTHER INFORMATION: <a href="http://www.mtl-inst.com">www.mtl-inst.com</a></b>	