

# Zener Barrier

## MTL7787+



### Features

- ▶ Simple installation onto standard DIN railing
- ▶ Removable colour-coded terminals for easy connection, accommodate conductors up to 2.5mm<sup>2</sup>,
- ▶ Supports up to two zones of I.S. products

### Description

Model MTL7787+ is an intrinsically safe, zone-powered, Zener-diode barrier for use in conventional fire detection systems for protection within hazardous areas.

Each Zone contains two stages of pulse-tested Zener or forward- connected diodes and an 'infallible' terminating resistor. In the event of an electrical fault in the safe area, the diodes limit the voltage that can reach the hazardous area and the resistor limits the current. A fuse protects the diodes, and the two stages of voltage limitation ensure continued safety if either stage should fail. No active output-current limiting circuits are employed.

Model MTL7787+ is certified 'ia' for all zones and 'IIC' for all explosive atmospheres.

**PLEASE NOTE: The Earth connections to the unit are made via connection to the DIN rail (this product MUST be earthed).**

<b>Specification</b>	
Ordering Code	MTL7787+
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
Maximum end-to-end resistance	333Ω
Working Voltage	26.6V
Maximum Voltage	27.2V
Fuse Rating (continuous)	50mA
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)	140 / H90 x W105 x D12.6
Mounting Method	DX070 Box

**FURTHER INFORMATION: [www.mtl-inst.com](http://www.mtl-inst.com)**