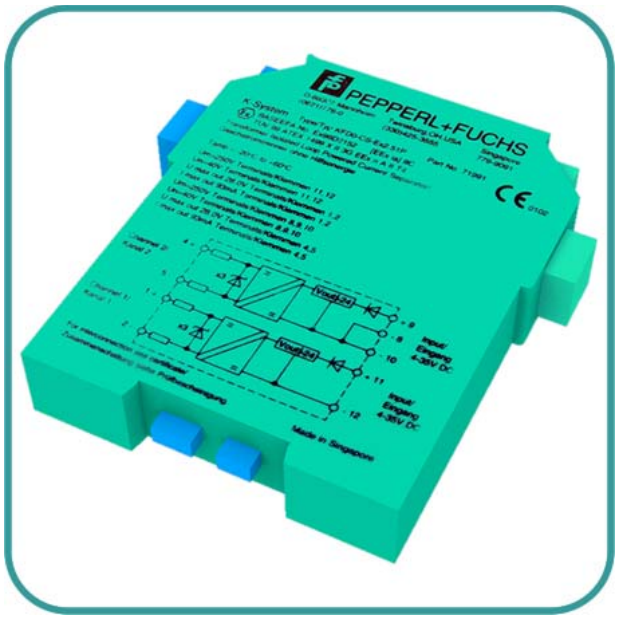
Zener Diode Barrier

Z787



Features

- Simple installation onto standard DIN railing
- Removable colour-coded terminals for easy connection
- Can accommodate conductors up to 2.5 mm^2
- Supports up to two zones of I.S. products

Description

Model Z787 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.

The unit 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).

Specification

Ordering Code	Z787
Series resistance	327 Ω
Maximum short-circuit current	93 mA
Fuse rating	50 mA
Number of Channels	2
Maximum end-to-end resistance	333 Ω
Working Voltage	26.5 V at 10 µA
Maximum Voltage	27 V
Operating Temperature Range	-20 °C to + 40 °C (continuous working)
Storage Temperature Range	-25 °C to + 70 °C
Maximum Humidity	95%RH - Non Condensing (at 40 °C)
Weight (g) / Dimensions (mm)	150 / 12.5 x 115 x 110
Mounting Methods	DX070 Box, SMB-2 or SMB-3 Enclosures

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