

2305 ZENER BARRIER

APPLICATIONS

The 2305 is a Zener Barrier, which is an intrinsically safe, zone-powered, Zener-diode barrier for use in conventional fire detection systems for protection within hazardous areas.



FEATURES

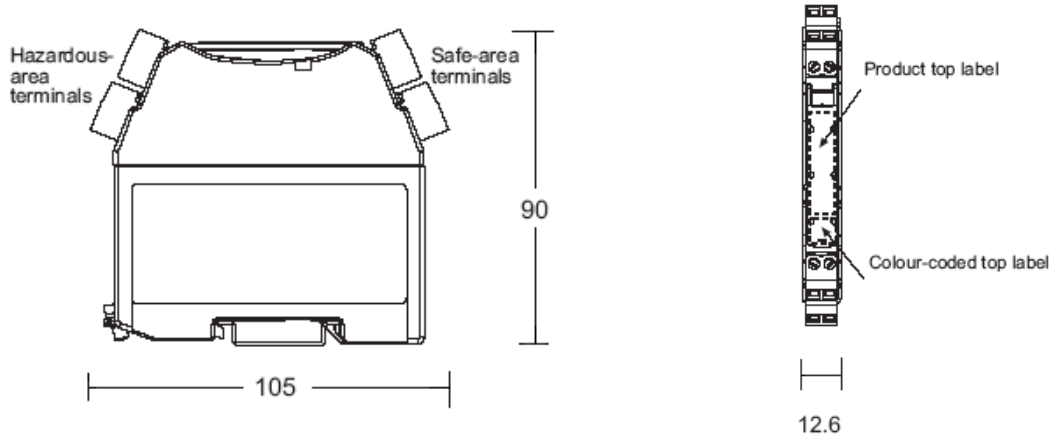
- Simple installation onto standard DIN railing
- Removable colour-coded terminals for easy connection, accommodate conductors up to 2.5mm²
- Supports up to two zones of IS products.
- Electronic fusing

OPERATION

The 2305 Zener Barrier is designed to limit both the maximum voltage and current with the circuit serving the hazardous area. 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.

Zener Barriers require earthing in accordance with the appropriate standards (typically <1 ohm to main building earth point).

APPROVALS : Approved for EEX ia IIC by BASEEFA



SPECIFICATION	
Order Code	2305
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)
Weight (g)	140
Dimensions	90 H x 105 W x 12.6 D
Maximum Humidity	95%RH – Non Condensing (40°C)