


CDXconventional Intrinsically Safe

IFD-E(IS)

Intrinsically Safe Industrial IR³ Infra-Red Flame Detector

Features

- ▶ Unaffected by convection currents, draughts or wind
- ▶ Tolerant of fumes, vapours, dust and mist
- ▶ ATEX certification to:  II 1G EEx ia IIC T4 (Zones 0, 1 and 2)
- ▶ Responsive to a flame up to 25 m away
- ▶ Selectable response speed
- ▶ Class 1 performance as defined in BS EN54-10:2002 (on the high sensitivity setting)
- ▶ Optical self-test
- ▶ Worldwide approvals include EN54:10, with VdS and LPCB certification, as well as SIL 2 rated.



Description

Model IFD-E(IS) is an Intrinsically Safe IR3 flame detector designed for use where open flaming fires may be expected and responds to the light emitted from flames during combustion.

Ideal for the detection of flames from the burning of Aviation Fuels (kerosene), Butane, Grain & Feeds, Hydrogen, Paper, Natural Gas, Petrol (gasoline) etc.

Specification

Ordering Codes	IFD-E(IS) IFD-MB (Stainless Steel Mounting Bracket)	
Operating Voltage	14 ~ 30 VDC	
Alarm Current (selected via by DIL switches)	9 ~ 28 mA	
Test Signal Voltage	14 to 30 VDC	
Relay Contact Ratings	Current	1.0 A (max)
	Voltage	50 VDC (max)
	Power	30 W (max) (resistive loads only)
Power Up Time	2 seconds (max)	
Field of View	90° min. Cone	
Range	Class 1 - 0.1m ² n-heptane at 25m Class 3 - 0.1m ² n-heptane at 12m	
Operating Wavelength Band	IR (0.75 ~ 2.7 μm)	
Operating Temperature Range	- 10 °C to + 55 °C (sensor limit - 10 °C to + 40 °C (T4))	
Storage Temperature Range	- 20 °C to + 65 °C	
Maximum Humidity	95% RH - Non Condensing	
Ingress Protection Rating	IP66	
Colour / Case Material	Blue / Die-Cast Zinc Alloy (ZA12)	
Weight (kg) / Dimensions (mm)	2 / H 142 x W 108 x D 82	
Approved Barriers	Pepper & Fuchs LTD. - Z728, Z779, Z828, KFD0-CS-Ex1.51, KFD0-CS-Ex2.51	
	MTL - MTL7028+, MTL7728+, MTL7779+, MTL7706+	