

IFD-E-EXD

Infra Red Flame Detector



Features

- Supports either a 'Frangible Glass' element or a 'Non-Frangible Plastic' element
- Terminals can accommodate up to a 2.5mm² solid conductor
- Approved to EN54 part 12
- Rugged design
- ATEX classification to II 1G EEx ia IIC T4

Description

Infra Red Flame Detector Alloy Flameproof Housing is an Explosion-Proof IR³ flame detector designed for use where open flaming fires may be expected and responds to the light emitted from flames during combustion. The detector discriminates between flames and other light sources by responding only to particular optical wavelengths and flame flicker frequencies. This enables the detector to avoid false alarms due to such factors as flickering sunlight. 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(Exd)	
	IFD-MB (Stainless Steel Mounting Bracket)	
Operating voltage	14 - 30Vd.c.	
Alarm Current (selected via by DIL switches)	3 ~ 28mA	
Test Signal Voltage	14 to 30Vd.c.	
Relay Contact Ratings	Current	1A (max)
	Voltage	50Vd.c. (max)
	Power	30W (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 ~ 2.7µm)	
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	Red / Copper Free Aluminium Alloy LM25	
Weight (Kg)/Height/Width/Depth (mm)	2.5 / 150 / 146 / 137	