Intrinsically Safe Industrial IR³ Infra-Red Flame Detector *IFD-E(IS)*



Features

- Unaffected by convection currents, draughts or wind and solar-blind
- ▶ Tolerant of fumes, vapours, dust and mist
- Certified to



- ▶ Responsive to a flame more than 25m away
- Selectable response speed
- ▶ Class 1 performance as defined in BS EN54-10:2002 (on the high sensitivity setting)
- Optical self-test

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.

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(IS) |
| | | | 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 Ratir | | Current | 0.25A (max) |
| | gs | Voltage | 30Vd.c. (max) |
| | | Power | 3.0W (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 $(0.75 \sim 2.7 \mu m)$ |
| 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 (at 40°C) |
| Ingress Protection Rating | | | IP65 |
| Colour / Case Material | | | Blue / Die-Cast Zinc Alloy (ZA12) |
| Weight (Kg)/Height/Width/Depth (mm) | | | 2 / 142 / 108 / 82 |
| Approved Barriers | Pepperl & Fuchs Ltd | | Z728, Z779, Z828, KFD0-CS-Ex1.51, KFD0-CS-Ex2.51 |
| | MTL | | MTL7028+, MTL7728+, MTL7779+, MTL7706+ |

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