CDXconventional

16591

INDUSTRIAL UV/IR² FLAME DETECTOR

Features

- ▶ Unaffected by convection currents, draughts or wind and solar-blind
- > Tolerant of fumes, vapours, dust and mist
- ▶ Selectable response speed
- ▶ Class 1 performance as defined in BS EN54-10:2002 (on the high sensitivity setting)
- Solar Blind
- Built in auto and manual test
- ▶ SIL2 Rated.



Model 16591 is an UV/IR² flame detector designed for use where open flaming fires may be expected and responds to the light emitted from flames during combustion.

The UV/IR2 flame detector is designed to protect areas where open fires may be expected and detects most flames from hydrocarbon fires with $4.3 \mu m$ emissions through to invisible fires such as hydrogen. The UV/IR2 Flame Detector is sensitive to flickering, low frequency (1-15Hz) infrared radiation along with ultra-violet emitted by flames during combustion.

This detector has a UV sensor and two IR sensors which respond to different wavelengths of both the ultra-violet and the infra-red spectrum. The signals from these sensors are processed by the detector and checked for characteristics of a flame.



The simultaneous detection of both the UV and the IR light by the sensors will signal an alarm. False alarms from flickering sunlight, arc welding and lighting are eliminated by a combination of UV and dual IR signal processing techniques.

The UV/IR2 flame detector has selectable output options or relay contacts or 4 to 20mA signal as standard.

This product is not suitable for use in Intrinsically Safe Areas

Specification

Ordering codes

IFD-MB (Stainless Steel Mounting Bracket)

Operating voltage 14 - 30 V dc

Alarm Current (selected via by DIL switches) 9 ~ 28 mA

Test Signal Voltage 14 to 30 V dc

Current 1.0 A (max) Voltage 50 V dc (max) **Relay Contact Ratings**

30 W (max) (resistive loads only) Power

Power Up Time 2 seconds (max)

Field of View 90° min. Cone

0.1 m2 n-heptane at 25 m Range - Class 1* 0.1 m2 n-heptane at 12 m Class 3

(see EN54: 10 for sensitivity settings)

Spectral Response UV (185 - 260 nm) IR (1.0 ~ 2.7 μm) -10 °C to + 55 °C

Operating temperature range 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









