



#### **Talentum Triple IR Flame Detector 16519**

The sensor responds to low-frequency (1 to 15 Hz) flickering IR radiation emitted from flames during combustion. IR flame flicker techniques enable the sensor to operate through a layer of oil, dust, water vapour, or ice. Most other IR flame sensors respond to 4.3 $\mu$ m light, emitted by hydrocarbon flames. By responding to 1.0 to 2.7 $\mu$ m light emissions from fires almost all flickering flames can be detected.

Gas fires not visible to the naked eye e.g. hydrogen may also be detected. The triple IR photoelectric detectors (IR<sup>3</sup>), responding to neighbouring IR wavelengths, enable it to discriminate between flames and spurious sources of IR radiation. The combination of filters and signal processing allows the sensor to be used with a very low risk of false alarms in difficult situations characterised by factors such as flickering sunlight.

#### **Key Features:**

- Fire/Fault, Pre-alarm
- Relay Contacts;
- Latching or Non-latching
- 4-20mA
- [Zones 1, 21, 2 and 22]
- *Ex tb IIIC T135°C Db IP66 A21*
- *II 2GD Ex d IIC T4 Gb*
- ATEX & IECEx certified
- Class 1 Sensitivity to EN54-10 Detects 0.1m<sup>2</sup> fire @ 25m
- Excellent Optical Interference Immunity
- Selectable Output Options:
- Conventional 2 wire
- Selectable Response Speed
- Optical Self Test
- Low Power Consumption
- LPCB & CPD Approved to EN54-10



### **Talentum Triple IR Stainless Steel Flameproof Flame Detector - 16549**

The Talentum flameproof triple Infra-Red (IR<sup>3</sup>) Flame Detector is designed to protect specialist hazardous areas where open fires may be expected and detects almost all flames, including hydrocarbon fires with 4.3 µm emissions through to invisible fires such as hydrogen. The IR3 Flame Detector is sensitive to flickering, low frequency (1-15Hz) infra-red radiation emitted by flames during combustion even if the lens is contaminated by a layer of oil, dust, water vapour or ice.

This detector has three IR sensors which respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation. False alarms from flickering sunlight are avoided by a combination of filters and signal processing techniques. The Talentum IR3 detector has selectable output options of relay contacts or 4-20mA signal, as standard.

#### **Key Features:**

- Excellent immunity to false sources
- Increased environmental protection
- Tolerant of fumes, vapours, dust and mist
- Suitable for indoor and outdoor areas
- Unaffected by convection currents, draughts or wind
- Proven response to multiple fuel types
- Multi-spectrum detection
- Selectable output options
- Selectable response speed
- Selectable sensitivity levels
- Built in auto and manual test
- Low current consumption
- Fast response to fire

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