Ampac

Fire detection and evacuation solutions that save lives.

Intelligent Base Mounted UV IR2 Flame Detector

Features

- Sensitive to UV and low frequency flickering IR radiation emitted by flames during combustion
- Compact flame detector fits standard XP95 bases
- Loop-powered
- False alarms due to electrical discharges from lightning or arc welding and flickering sunlight are minimised

Description

The Intelligent Base Mounted UV Dual IR2 Flame Detector is designed to protect open indoor areas such as aircraft hangers, generator rooms and paint works where open flaming fires may be expected.

The detector has UV and dual IR sensors responding to different wavelengths in order to discriminate between flames and spurious sources of radiation.

The Intelligent Base Mounted UV IR2 Flame Detector is sensitive to ultraviolet and low frequency, flickering infra-red radiation emitted by flames during combustion. Since it requires both UV and IR radiation the detector can operate in applications where the basic single UV or single IR detector would be inappropriate. The detector is set to respond to ultraviolet (185nm – 260nm) and low frequency flickering infrared (0.75um – 2.7um) radiation at 1Hz – 15Hz in order to detect all flickering flames, including those invisible to the naked eye e.g. those emitted by hydrogen fires. The detector has one UV and two IR sensors responding to different wavelengths in order to discriminate between flames and spurious sources of radiation. False alarms due to electrical discharges from lightning or ARC welding and flickering sunlight are minimised by combining the UV/IR signals.

The Intelligent Base Mounted UV IR2 Flame Detector is not affected by the limitations of the UV flame detector. They can be used in Aircraft Hangers, Generators Rooms (Diesel and Gas Turbines) and Paint Works.

The Intelligent Base Mounted UV IR2 Flame Detector can be installed on a ceiling, positioned above the anticipated flame source or at the centre of the area to be protected, perpendicular to the floor below. If the Detector cannot see the whole of the area to be protected, one or more additional detectors may be required.

Intelligent Base Mounted UV Dual IR Flame Detector

Item Numbers	
Australia	
201-0131	XP95 Base Mounted UV/IR2 Flame Detector
201-0186	Bracket for Base Mounted Flame
International	
55000-023APO	XP95 Base Mounted UV/IR2 Flame Detector
29600-458	Bracket for Base Mounted Flame

Specifications	
Supply Voltage	17-28V DC
Quiescent Current	2.8mA
Alarm Current	4.2mA
Field of View	90° Cone
Dimensions inc base	100mm Dia x 48mm H
Spectral Response	UV 185 to 260nm IR 0.75 to 2.7µm
Operating Range	0.1m² n-heptane at 25m
Operating Temperature	-40°C to +70°C
Relative Humidity	0 – 95% non-condensing
IP Rating	IP23D (indoor use)
Weight	210g inc base