

Fire detection and evacuation solutions that save lives.

# Intelligent Base Mounted Triple IR Flame Detector

## Features

- Sensitive to low-frequency flickering IR radiation emitted by flames during combustion.
- Compact flame detector fits standard XP95 bases
- Loop-powered
- Sensitive to low-frequency flickering IR radiation emitted by flames during combustion.

## Description

The Intelligent Base Mounted Triple IR Flame Detector is designed to protect all indoor areas, even in dirty or smoky conditions, where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.

The detector is sensitive to low frequency, flickering infrared radiation emitted by flames during combustion. Since it responds to flickering radiation the detector can operate even if the lens is contaminated by a layer of oil, dust, water vapour or ice. The detector is set to respond to low frequency radiation at 1Hz – 15Hz (0.75um – 2.7um) in order to detect all flickering flames, including those invisible to the naked eye e.g. those emitted by hydrogen flames. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation. False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques

The triple IR flame detector is also fast reacting but is also tolerant of fumes, vapours, steam, duct and mist, while being unaffected by the UV flame detector limitations. It may, however be affected by modulated IR radiation. Triple IR flame detectors are used in waste handling, colour printing and paper manufacturing.

The Intelligent Base Mounted Triple IR 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.



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## Item Numbers

### Australia

<b>201-0132</b>	XP95 Base Mounted IR3 Flame Detector
<b>201-0186</b>	Bracket for Base Mounted Flame

### International

<b>55000-024APO</b>	XP95 Base Mounted IR3 Flame Detector
<b>29600-458</b>	Bracket for Base Mounted Flame

## Specifications

<b>Supply Voltage</b>	17-28V DC
<b>Quiescent Current</b>	2.5mA
<b>Alarm Current</b>	4.2mA
<b>Field of View</b>	90° Cone
<b>Dimensions inc base</b>	100mm Dia x 48mm H
<b>Spectral Response</b>	IR 0.75 to 2.7µm
<b>Operating Range</b>	0.1m² n-heptane at 25m
<b>Operating Temperature</b>	-40°C to +70°C
<b>Relative Humidity</b>	0 – 95% non-condensing
<b>IP Rating</b>	IP23D (indoor use)
<b>Weight</b>	210g inc base