

Intelligent Flameproof Dual IR2 Flame Detector

Features

- Sensitive to flickering IR Radiation
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- Compatible with Discovery and XP95 protocols
- Remote optical self-test function
- Loop-powered
- 90° field of view
- Up to 40m coverage
- IP65 rated

Description

The Intelligent Flameproof IR2 Flame Detector is designed for hazardous environments in indoor applications.

The detector has two sensors which respond to different IR wavelengths to discriminate between flames and spurious sources of radiation. These detectors are Baseefa approved and meet the requirements of ATEX Directive 94/9/EC.

IR flame detectors are able to tolerate dirtier environments which may block UV radiation and are generally used in applications such as waste handling, colour printing and paper manufacturing.

The Intelligent Flameproof IR2 Flame Detector is loop powered and needs no external supply. The flame detector should be positioned at the perimeter of the room, pointing directly at the area of the anticipated flame or at the centre of the area to be protected. If the Flame Detector cannot see the whole of the area to be protected, one or more additional detectors may be required.

Applications

Flame detectors are used when detection is required to be unaffected by convection currents, draughts or wind, tolerant of fumes, vapours, steam, dust and mist, and responsive to a flame more than 25m away and fast reacting.

- Agriculture – grain and malt processing, animal feed manufacture
- Aircraft Hangars
- Automotive industry – spray booths, parts manufacture
- Chipboard and MDF manufacture
- Metal fabrication and Power Plants



Flameproof IR2 Flame Detector

Item Numbers

Australia	
201-0191	Flameproof Dual IR2 Flame Detector
201-0189	Flame Detector Bracket
201-0190	S/Steel Weather Shield
International	
55000-295APO	Flameproof Dual IR2 Flame Detector
29600-203	Flame Detector Bracket
29600-206	S/Steel Weather Shield

Specifications

Supply Voltage	17-28V DC
Quiescent Current	2.2mA
Alarm Current	4.2mA
Dimensions inc base	142 x 108 x 82mm
Cable Gland Entries	2 x 20mm
Operating Range	0.1m ² n-heptane at 25m 0.2m ² n-heptane at 35m 0.4m ² n-heptane at 45m
Operating Temperature	-10°C to +55°C
Relative Humidity	0 – 95% non-condensing
IP Rating	IP66
Weight	1kg