



## FF747

Dual IR Intrinsic safe flame detector in die-cast zinc alloy housing

### General

The FF747 is a intrinsic safe IR<sup>2</sup> flame detector in a die-cast zinc alloy housing. IR<sup>2</sup> models have excellent response to flame while providing immunity to extraneous sources. New micro-processor technology makes the detectors independent of flame intensity enabling it to operate through smoke, a layer of oil, dust, or water vapor. A high and low sensitivity setting according to EN54-10 is provided.

### Installer and maintenance friendly

The units can be wired as conventional 2 wire, 4-20 mA, or relay contacts (fire, fault and pre alarm) in latching or non-latching operation. Remote test inputs are available to activate self-test.

A stainless steel adjustable bracket and weather shield is also available.

The units are tolerant to vibration, and wind does not affect the performance. The IR<sup>2</sup> unit has excellent tolerance to detector window contamination and can detect flame through glass windows.

A flame sensor test unit is available for accurate testing of the detectors.

### Reducing false alarms

Most IR flame sensors respond to 4.3 m light, emitted by hydrocarbon flames. By responding to 1.0 to 2.7 m light emitted by every fire, all flickering flames can be detected. Gas fires not visible to the naked eye e.g. hydrogen may also be detected.

The IR<sup>2</sup> detectors, responding to adjacent 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 without risk of false alarms in difficult situations characterised by factors such as flickering sunlight.



### Standard Features

- Dual IR detector
- High specification units for critical applications
- IP65 Housing
- Low current consumption
- 2 Wire, 4 - 20 mA and relay operation
- Latching and non latching operation
- High / Low sensitivity setting
- Tolerance to detector window contamination
- Remote self test facility
- Microprocessor controlled
- Immunity to false sources (arc welding, lightning and static)
- Conforms to EN54: Part 10

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## Specifications

Supply voltage	14 - 30 VDC
Supply current	3/9, 4/8/14, 4-20, 8-20 mA
Relay contact ratings	1 A @ 30 VDC (resistive load)
Field of view	90° min. cone
Spectral response (IR)	1 to 2.7 microm
Operating temperature	-10°C to 55°C
Storage temperature	-20°C to 65°C
Relative humidity	95% non-condensing
IP Rating	IP65
Weight	2 kg
IEC Marking	EEx ia IIC T4

## Ordering Information

Part No.	Description
FF747	Dual IR Intrinsic safe flame detector in die-cast zinc alloy housing
FF741	Dual IR flame detector in glass reinforced polycarbonate housing
FF742	Dual IR flame detector in die-cast zinc alloy housing
FF746	Dual IR flame detector in Eexd - IIC T6 flame proof housing



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