

# IR FLAME DETECTOR

## Rear Viewing



Flame Detection

### General

The single Infra-red (IR) Flame Detector is designed to protect areas such as dark machinery spaces, ducts and closed cabinets where fires may be expected.

The IR Flame Detector is sensitive to low frequency, flickering infra-red radiation emitted by flames during combustion.

This type of IR detector also responds to IR wavelengths emitted from glowing embers and sparks.

Since it responds to flickering radiation the IR Flame Detector can operate even if the lens is contaminated by a layer of oil, dust water-vapour or ice.



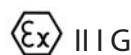
### Features

- Response range from 0.75 to 2.7 $\mu$ m radiation at 1 to 15 Hz depending on model
- Detects almost all flames and embers and sparks
- False alarms are avoided by a combination of filters and signal processing techniques.
- An intrinsically safe model for use in hazardous areas is available
- Rear viewing models only
- Fire/Fault, Pre-alarm clean contact, latching or non-latching relays
- Integral alarm LED
- To reset after an event, interrupt power to the detector for minimum of 1 second
- High optical interference immunity
- Selectable response speed
- Optical self test
- Low power consumption

### Approvals

**Intrinsically Safe (IS)**  
(Zones 0, 1 and 2)

- **ATEX**



**LPCB & CPD** Approved to EN54-10

## IR Flame Detector Housing



**Rear Viewing  
Die Cast Zinc Alloy  
Intrinsically Safe Model Available**

## Specifications

<b>Supply Voltage:</b>	14 - 30 VDC
<b>Quiescent Current:</b>	8mA maximum
<b>Alarm Current:</b>	28mA maximum
<b>Alarm Indicator:</b>	Red LED
<b>Power Up Time:</b>	2 Seconds
<b>Range of View:</b>	0.1m <sup>2</sup> n-heptane @ 25m
<b>Sensitivity:</b>	Class 1 (EN54-10)
<b>Field of View:</b>	90° cone
<b>Spectral Response:</b>	IR <sup>2</sup> 0.75 to 2.7µm
<b>Temperature Range:</b>	-10° to +55° C (no condensation or icing)
<b>Relative Humidity:</b>	95% (non-condensing)
<b>IP Rating:</b>	IP65

## Accessories:

Purge air adaptor  
Stainless steel weathershield  
Bayonet mount  
DIN rail mount

---

© 2009 by Honeywell International Inc. All rights reserved.  
Unauthorised use of this document is strictly prohibited.

---

This document is not intended for installation purposes.  
We try to keep our product information up-to-date and accurate.  
We cannot cover all specific applications or anticipate all requirements.  
All specifications are subject to change without notice.

For more information contact your nearest Notifier Sales Office or Distributor  
[www.notifier.com.au](http://www.notifier.com.au)