

## IR3 / IR3-IS / IR3-EX INFRA-RED FLAME DETECTOR



### STANDARD FEATURES

- Choices of Infra-Red Flame Detector are IR3, IR3-EX (Explosion Proof), IR3-IS (Intrinsically Safe)
- LPCB Listed and Certified to EN54-10
- Certified to  $\otimes$  II 2 G D
- Range of view up to 25m (82 ft.)
- Reduces false alarm by built-in combination filters and signal processing techniques
- Operates even if the lens is contaminated by a layer or oil, dust, water-vapor or ice

SPECIFICATIONS	
Models:	IR3, IR3-IS (Intrinsically Safe) IR3-EX (Explosion Proof)
Rated Voltage	14 - 30 VDC
Alarm Current	3 - 28mA (Selected by DIL Switch)
Detector Test Input	14 - 30 VDC
Relay Contact Voltage	50 VDC max.
Relay Contact Current	1A max.
Relay Contact Power	30W max. (resistive loads)
Power Up Time	2 seconds
Alarm Reset Voltage	6 VDC
Alarm Reset Time	1 second
Range of View	25m (82 ft.)
Field of View	90° cone
Operating Temperature	-10°C(14°F) ~ 55°C(131°F)
Operating Wavelength	IR (0.75 ~ 2.7μm)
Relative Humidity	95%, Non-Condensing
Color / Material	Red / Copper Free Aluminium Alloy
Dimensions (mm)	146 W x 150 H x 137 D
Weight	2.5kg

### APPLICATION

The IR3 / IR3-EX (Explosion proof) / IR3-IS (Intrinsically Safe) Infra-red flame detectors are suited for installation where open flame fires may be expected and responds to the light emitted from flames during combustion. This detector is used to detect flames from burning Aviation Fuels, Butane, Grain & Feeds, Hydrogen, Paper, Natural Gas, Petrol.

### OPERATION

The IR3 / IR3-EX (Explosion proof) / IR3-IS (Intrinsically safe) detector discriminates between flames and other light sources by responding only to set optical wavelengths and flame flicker frequencies. The built-in filters and signal processing techniques help reduce false alarms due to flickering sunlight. Talentum's Flame Detector Test Unit (Part #016091) can be utilized to test the flame detector.

### PRODUCT LISTINGS



Certificate No: 358d/01, 358d/02  
358d/03, Certified to EN54-10

Specifications subject to change without notice.

### Hochiki America Corporation

7051 Village Drive, Suite 100 Buena Park, CA 90621-2268  
Phone: 714/522-2246 Fax: 714/522-2268  
Technical Support: 800/845-6692 or [technicalsupport@hochiki.com](mailto:technicalsupport@hochiki.com)

Find latest revision at [www.hochiki.com](http://www.hochiki.com)

