# Conventional IR<sup>2</sup> Flame Detector



### **Product Overview**

**Product Type** IR<sup>2</sup> Flame Detector

55000-060 Part No.

## **Approvals**



## **Product Information**

The IR2 Flame Detector is sensitive to low frequency, flickering IR radiation emitted by flames during combustion.

The IR2 Flame Detector has two IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.

- Selectable output options: Conventional two-wire, 4-20 mA, latching or non-latching, relay contacts, fire/fault, pre-alarm
- Class 1 sensitivity to EN54-10 detects 0.1 m<sup>2</sup> fire at 25 m
- · High optical interference immunity
- · Selectable response speed
- · Optical self-test
- · Low power consumption

### Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 23°C and 50% RH unless otherwise stated.

14 - 30 V dc Sensor supply voltage

Supply current See DIL switch settings in Table 1

14 - 28 V dc Test signal voltage Maximum power up time 2 seconds

Relay contact ratings:

Current 1.0 A max. Voltage 50 V dc max.

Resistive loads only, power 30W max.

Performance:

Field of view

Range (EN 54-10) Class 1 0.1 m<sup>2</sup> n-heptane at 25m Class 3 0.1 m<sup>2</sup> n-heptane at 12m

90° min. Cone IR 0.75 to 2.7 μm Spectral response Sensitivity High - Class 1 Low - Class 3 Operating temperature -10°C to +85°C

-20°C to +65°C Storage temperature Relative humidity 0% to 95% RH

(no condensation or icing)

Vibration, impact and shock FN 54-10

EMC immunity / emissions EN 61000-6-1, EN 61000-6-2,

EN 50130-4. EN 55022

Housing Material Die Cast Zinc Alloy Standards and approvals LPCB, EN 54-10, CPD

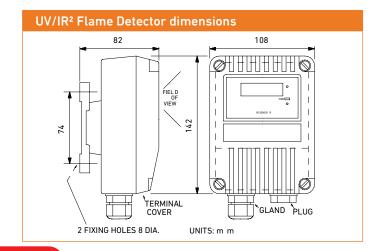
Housing Colour

108 mm wide x 142 mm high x Dimensions

82 mm deep

Weight 1kg

Cable Gland Entries 2mm x 20mm



36 Brookside Road, Havant Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412

Email: sales@apollo-fire.com Fax: +44 (0)23 9249 2754 | Web: www.apollo-fire.co.uk



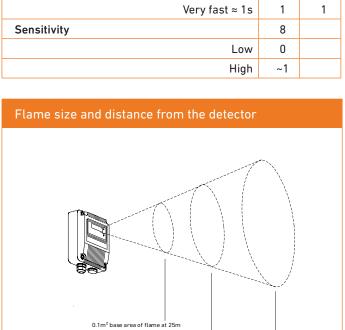








Selectable options		
	DIL switch settings	
Relay RL2 function	1	1
RL2 off	0	0
RL2 off	1	1
IR fire or pre-alarm	0	1
Fault (Energised if OK)	1 ~ 1	
Alarm currents [RL1 Flame Relay]	3	4
3.9 mA RL1 Only, 4/8/14 mA RL2 and RL1	0	0
4 - 20 mA, 4/20 mA, No relays /or	1	0
8 - 20 mA, 8/20 mA and relays - Proportional	0	1
8/28 mA and relays	1~1	
Output mode	5	
Non-latching (-)	0	
Latching (/)	~1	
Response time	6	7
Slowest ≈ 8 s	0	0
Medium ≈ 4 s	1~ 0	
Fast ≈ 2 s	0	1
Very fast ≈ 1s	1	1
Sensitivity	8	
Low	0	
High	~1	



0.2m² base area of flame at 35m

0.4m² base area of flame at 45m

