



Exd Flame Detector (IR3) – Flameproof

Addressable – Devices

Part No. 55000-021APO

www.illuminoignis.co.uk

Product Details

The XP95 Exd Flame Detector (IR3) – Flameproof is designed for use in hazardous environments in both indoor and outdoor applications. It is sensitive to low-frequency, flickering infra-red radiation emitted by flames during combustion. These detectors are BASEEFA approved and meet the requirements of ATEX Directive 2014/34/EU.



Key Features

- ATEX certified: II 2 G D
- CENELEC/IEC certified: EEX d – IIC T4 – (Zones 1, 21, 2 and 22)
- Class 1 sensitivity to EN54-10 detects 0.12m² fire at 25 m
- 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
- 90° field of view
- Up to 40 m coverage

Technical Specifications

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

Supply Voltage	14 – 28 V dc
Digital Communication	XP95 native, Discovery compatible
Quiescent Current	2.2 mA
Alarm Current	4.2 mA
Maximum Power Up Time	4 seconds max
Remote LED Current	limited to 2 mA
Range of View	0.1 m ² n-heptane at 25 m 0.2 m ² n-heptane at 35 m 0.4 m ² n-heptane at 45 m
Field of View	90° minimum cone
Spectral Response	1.0 to 2.7 μm
Sensitivity (EN 54-10)	High – Class 1 Low – Class 3

Operating Temperature	-10°C to + 55°C
Storage Temperature	-20°C to + 65°C
Humidity (no condensing or icing)	0% to 95% RH
IP Rating	IP66
Dimensions	150 mm (h) x 146 mm (w) x 139 mm (d)
Weight	2.3 kg
Housing Materials	copper-free aluminium alloy
Housing Colour	red
Cable Gland Entries	3 x 20 mm

All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.



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Operation

The XP95 Exd Flame Detector (IR3) – Flameproof is sensitive to flickering, low frequency (1- 15 Hz) infra-red radiation emitted by flames during combustion even if the lens is contaminated by a layer of oil, dust, water, vapour or ice.

This detector has three IR sensors which respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation. False alarms from flickering sunlight are avoided by a combination of filters and signal processing techniques.

Response Characteristics - High Sensitivity

Fuel	Flame Size m2 (in2)	Distance m (ft)	Approval
n-Heptane* (Yellow flame)	0.1 (144)	25 (82)	EN54-10
Methylated spirit* (Clear flame)	0.25 (400)	25 (82)	EN54-10

* Has been tested and approved at Class I

Figure 1: Dimensional Drawing

