Conventional Flameproof (Exd)

IR³ Flame Detector

Product overview

Product	Flameproof (Exd) IR³ Flame Detector
Part No.	55000-062

Approvals

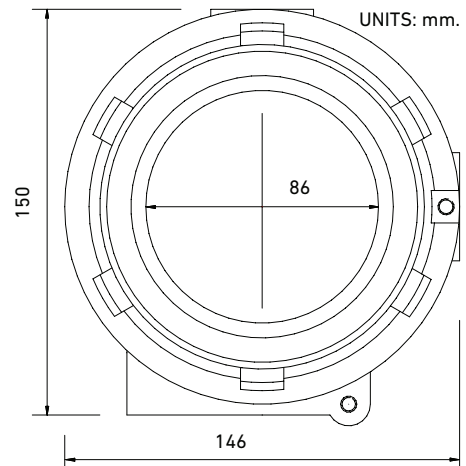LPCB | Ex | IECEx | Baseefa

Product information

The Flameproof (Exd) IR³ Flame Detector is designed for indoor and outdoor hazardous environment applications. It is sensitive to low-frequency flickering infra-red radiation emitted by flames during combustion. The sensor operates even through a layer of oil, dust, water vapour or ice. Certified by BASEEFA for compliance with standards EN60079-0, EN60079-1 and EN61241-1.

- ATEX and IECEx certified: II 2GD Ex d IIC T4 Gb, Ex tb IIIC T135OC Db IP66 A21 (Zones 1, 21, 2 and 22)

- Class 1 sensitivity to EN54-10 detects 0.1m² fire at 25 m

- Highest optical interference immunity

- Selectable output options: Conventional two-wire, 4 - 20 mA, Relay Contacts - Fire/fault, pre-alarm, latching or non-latching

- Selectable response speed

- Optical self-test function

- Low power consumption

Note: For outdoor use it is recommended to use the **Apollo Flame Detector Weather Shield for Flameproof Version.** *Please visit our website for more information.*

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Supply voltage	*14 - 28 V dc*
Quiescent current	*2.2 mA*
Maximum power-up time	*2 seconds*
Remote LED current	*Limited to 2 mA*
Range of view	*0.1 m^2 n-heptane at 25 m* *0.2 m² n-heptane at 35 m* *0.4 m² n-heptane at 45 m*
Field of view	*90° cone*
Spectral response	*IR 0.9 to 1.7 µm* *UV 185 to 260 nm*
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*
Standards and approvals	*EN 54-10, LPCB, ATEX and IECEx*
Dimensions	*150 mm diameter. x 137 mm deep*
Weight	*2.5 kg*
Materials	*Copper-free aluminium alloy LM25*
Housing colour	*Red*
Cable gland entries	*3 x 20 mm*

Dimensional drawing

UNITS: mm.

150 | 86 | 146

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