

# Intelligent Flameproof IR<sup>2</sup> Flame Detector



## Technical Data

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

<b>Supply voltage</b>	17 - 28 V dc
<b>Digital communication</b>	XP95 and Discovery compatible
	2.2 mA
<b>Quiescent current</b>	2 seconds
<b>Maximum power-up time</b>	Limited to 2 mA
<b>Remote LED current</b>	0.1 m <sup>2</sup> n-heptane at 25 m 0.2 m <sup>2</sup> n-heptane at 35 m 0.4 m <sup>2</sup> n-heptane at 45 m
<b>Range of view</b>	90° cone
<b>Field of view</b>	1.0 to 2.7 µm
<b>Spectral response</b>	High - Class 1
<b>Sensitivity (EN 54-10)</b>	Low - Class 3
<b>Operating temperature</b>	-10°C to +55°C
<b>Storage temperature</b>	-20°C to +65°C
<b>Humidity (no condensing or icing)</b>	0% to 95% RH
<b>IP rating</b>	IP66
<b>Use</b>	Indoor use only
<b>Standards and approvals</b>	EN 54-10, LPCB, CCS, IECEx and BASEEFA
<b>BASEEFA Certificate No.</b>	08ATEX0270
<b>Dimensions</b>	150 mm diameter. x 137 mm deep
<b>Weight</b>	2.5 kg
<b>Materials</b>	Copper-free aluminium alloy LM25
<b>Housing colour</b>	Red
<b>Cable gland entries</b>	3 x 20 mm

## Product overview

<b>Product</b>	Intelligent Flameproof IR <sup>2</sup> Flame Detector
<b>Part No.</b>	55000-295
<b>Digital Communication</b>	XP95 and Discovery compatible

## Approvals

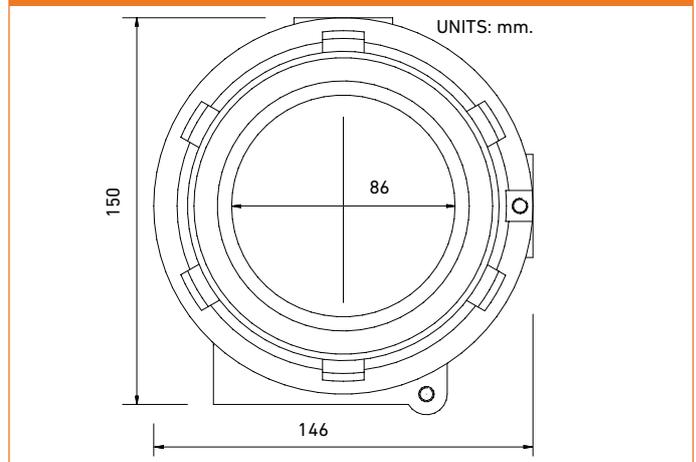


## Product information

The Intelligent Flameproof IR<sup>2</sup> Detector is designed for hazardous environments in indoor applications. The detector has two sensors which respond to different IR wavelengths to discriminate between flames and spurious sources of radiation. These detectors are BASEEFA approved and meet the requirements of ATEX Directive 2014/34/EU.

- 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 0.12m<sup>2</sup> fire at 25 m
- Highest optical interference immunity
- Sensitive to flickering IR radiation
- 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
- Remote optical self-test function
- 90° field of view
- Up to 40 m coverage

## Dimensional drawing



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