116-BG-21F

Dual IR flame detector with mounting bracket

General

BG-21 is a point flame detector for detection of fires involving combustion of carbonaceous materials.
The detector has a high IP rating making it suitable for the harshest environments.
The detector can be used with most conventional fire alarm panels giving alarm on the current increase principle. An alarm resistor must be fitted between terminal 3 and 4. The value of the alarm resistor can be dimensioned for correct alarm current depending on the panel.
Performance class can be configured by the system according to table 1.
The advanced signal processing and DYFI+ intelligence ensure that the detector has a high immunity to any nuisance alarm source combined with fast detection of real fires.

The bracket allow to mount the detector in a Facade detection configuration outside the building to protect



Application

The 116-BG-21 has a high IP rating making it suitable for the harshest environments. It may be used with most conventional fire alarm panels. An alarm resistor can be fitted to suit the alarm current required by the detection zone.

The performance class (Class 1 to 3) according to EN54-10 can be configured as required. The advanced signal processing and DYFI+ intelligence ensure that the detector has a high immunity to nuisance alarm sources in combined with fast detection of real fires.

Installer and maintenance friendly

Two infrared sensors detect the infrared spectrum from a fire. The sensors evaluate different parts of the infra red spectrum using this information to verify that the signals correspond to the characteristics of a real flame.

Details

- Standard conventional fire detection interface for connection to most conventional fire detection zones
- Selectable sensitivity settings
- Integrated alarm indicator (LED)
- High immunity to false alarm sources, including sunlight
- Fast detection of hydrocarbon fires
- Not blinded by oil film on detection window
- Approved to the requirement of the major maritime classification societies

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Technical specifications

General

Status indication	LED
Compatibility	Conventional fire zones
Connectivity	2-wire zone

Electrical

Power supply type	Zone powered
Operating voltage	10 to 26 VDC
Current consumption	90 µA (Standby) 2.1 mA (Alarm)
Cable specification	< 2.5 mm² (AWG14)
No. of cable cores	2
Terminals	4

Detection

Detection principle	Dual infrared sensors detect the fire spectrum
Sensitivity	Selectable
Field of view	90°
Range	< 25 m
Lateral detection	< 45°
Installation height	< 25 m
Adjustment angle	< 75°
Response time (all languages)	> 3 s (n-heptane)

Physical

Physical dimensions	119 x 63.5 mm (Ø x H)
Net weight	210 g
Colour	Light grey, Transparent
Mounting type	Wall mount
Cable entries	4 off - 6 to 12 mm (with cable gland)

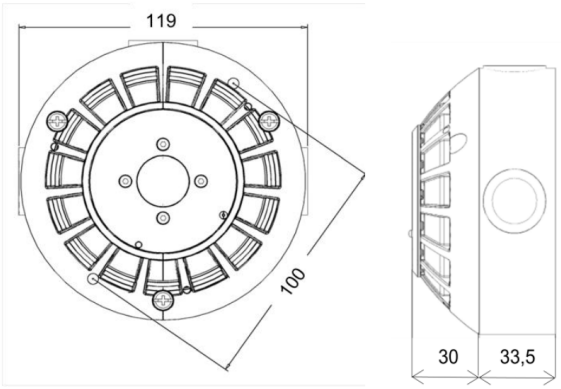
Environmental

Vandal proof	No
Operating temperature	-40 to +70°C
Storage temperature	-40 to +70°C
Relative humidity	0 to 96% (continuous) 100% (short periods)
Environment	Indoor, Outdoor
IP rating	IP66 / 67

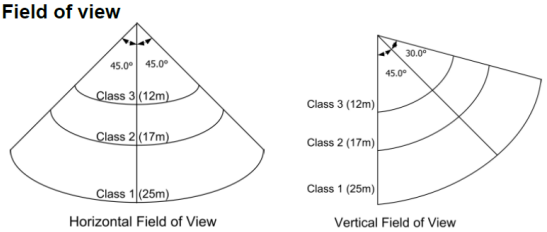
Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-10

Dimensions



Field of view



EDWARDS
Built for Resilience

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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