FG-BD100
BEAM DETECTOR

FAMCO

هایپـرصنعت

FIRE GUARD

PRODUCT OVERVIEW

Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user friendly alignment method. The Laser bam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it more easy and convenient in alignment commissioning.

FG-BD100 has four adjustable operational ranges between 8 to 20, 20 to 40, 40 to 70 and 70 to 100 metres beside with three adjustable sensitivity setting ranges from 2.6dB, 3.8dB and 5.8dB to meet the specific environmental requirement. FG-BD100 works on the principle of reflective infrared beam obscuration. Used in conjunction with a reflector, it will notify the fire alarm panel when the infrared beam is obscured by smoke.

Features

> EN54-12 Compliance.
>Hassle free alignment, built with digital guide display and laser beam pointing.
> Employ single-ended design through reflective mirror.
> Four ranges wide monitoring from 8-100 meters via encoder.
> Built-in microprocessor.
>Self-diagnosis function can monitor for internal faults.
> Automatic compensation for factors weakening received signals, such as dust   contamination, positional movement and ageing of the transmitter.
> Fire and Fault interfacing relays.
>Attractive and pleasing appearance.
> Real User friendly alignment method.

MODEL	DESCRIPTION
FG-BD100	REFLECTIVE BEAM DETECTOR

LPCB
LOSS PREVENTION CERTIFICATION BOARD
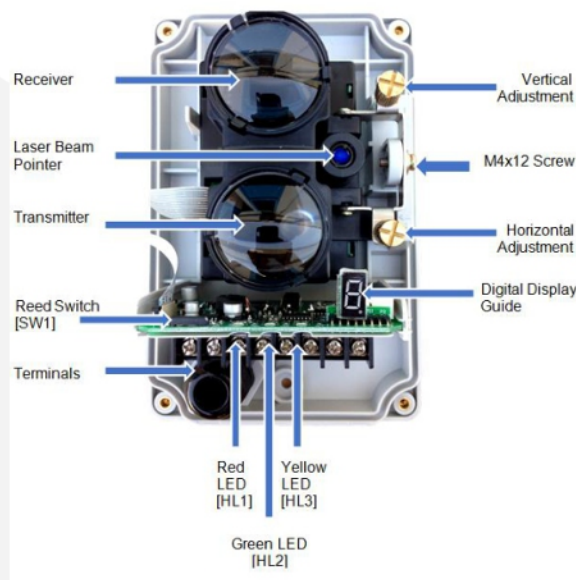EN54-2 & EN54-4
1330a-(cl-4)

- ## Standard

Listed : LPCB Aprroval.
Compliance : EN54-12
Fire Detection and Alarm Systems: BS 5839 Part 1 : 2002

- ## Specification

Operating Voltage : 20 - 28 V DC
Current Parameters
    Standby : 23 mA
    Commission : 56 mA
    Alarm : 33 mA

- ## Beam Sensor Sensitivity [Via Encoder]

Level 1 : 2.6 dB High Sensitivity
Level 2 : 3.8 dB Medium Sensitivity
Level 3 : 5.8 dB Low Sensitivity

- ## Beam Pathway Length [Via Encoder]
    Span 1 : 8 to 20 meters Llimited Path
    Span 2 : 20 to 40 meters Short Path
    Span 3 : 40 to 70 meters Normal Path
    Span 4 : 70 to 100 meters Long Path
- ## Beam Pathway Angle : ±0.4° Directional.
- ## Alignment Guide : Laser Beam Pointer
- ## Digital Display Guide : Nixie Tube.
- ## LED Indicator Guide
    Red : Fire
    Yellow : Fault
    Green : Alignment
- ## Reset Time : Less than 2 second
- ## Relay Capacity [Fire & Fault] : Normally Open & close/ 2.0 A; 30 VDC
- ## Physical
    Material / Colour : ABS / White
    Dimension(mm) / Weigh : L: 190.87 x W: 126.87 x H: 91.96 / 440g
    Weight : 0.130 kg with base
- ## Environmental
    Operating Temperature : -10°C to +50°C
    Ingress protection Rating : IP30[IP66 glue seal-for permanent fixing]
    Humidity : 0 - 95%

Receiver — Vertical Adiustment — Laser Beam Pointer — M4x12 Screw — Transmitter — Horizontal Adjustment — Reed Switch [SW1] — Digital Display Guide — Terminals — Red LED [HL1] — Yellow LED [HL3] — Green LED [HL2]

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

Smoke Detector
Technical Data

Fireguard FG 318 series optical smoke detectors are designed to respond to a wide spectrum of fires and ease installation.The FG318 series Multisensors use Advance Photelectric technology in conjunction with fixed temperature heat sensor to further extend its capabilities as a smoke detector.Every unit is individually tested and calibrated to ensure high reliability and prevent false alarms.

Product Features : LPCB EN54 APPROVED

- 2 or 4 wire models
- Dual LEDs for 360°visibility
- Advanced Photoelectric smoke technology
- Easy installation and maintenance
- Durable sensor head, excellent smoke access.
- Five-year limited warranty
- N/C (normal/close)-N/O (normal/open)selectable relay output

Options:

- AR (Auto Reset) function for security systems (optional for 4 wire models)
- Sensor base option: standard and Shottky Diode
- Remote LED

Sensor Specification :

Model	2/4 wire	Thermal	Voltage DC	Standby Current (Max)	Alarm Curent (Max)	Surge Current (Max)	Star-Up Time (Max)	Permissible Current (Max)	Frequency	Alarm contact	Base model
FG 318-2	2		12~35V	35µA	70mA	40µA	60Sec	80 mA	3-5 Sec		P/N852001
FG 318-2-LED	2		12-35V	35µA	70mA	40Ma	60Sec	80 mA	3-5 Sec		P/N852001
FG 318-4-12	4		10.2~13.8 V	35µA	35mA		60Sec	80 mA	3-5 Sec	Form A/B	P/N852001
FG 318-4-24	4		20.4~27.6 V	35µA	35mA		60Sec	80 mA	3-5 Sec	Form A/B	P/N852001
FG 318-2H	2	57℃	12~35V	35µA	70mA	40µA	60Sec	80 mA	3-5 Sec		P/N852001
FG 318-2H-LED	2	57℃	12-35V	35µA	70mA	40µA	60Sec	80 mA	3-5 Sec		P/N852001
FG 318-4H-12	4	57℃	10.2~13.8 V	35µA	35mA		60Sec	80 mA	3-5 Sec	Form A/B	P/N852001
FG 318-4H-24	4	57℃	20.4~27.6 V	35µA	35mA		60Sec	80 mA	3-5 Sec	Form A/B	P/N852001

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تهران ، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

iQ458 series **Conventional Smoke detectors**

Fireguard IQ series detectors are UL listed compatible with most of the panels.

Fireguard IQ series conventional smoke detectors are engineered to the best quality and durability in accordance with UL standards. They work with all conventional fire control panels and SECURITY panels. Series detector also comes as a multisensor smoke and heat detector. Your perfect choices of reliable smoke detectors that completely meet the strictest testing in UL lab.

Product Features

• 2 or 4 wire model with universal voltage input (9-33V)

• Dual LEDs for 360° total visibility

• Advanced detection and discrimination algorithms

• Easy installation and maintenance

• Sleek low-profile design

• Durable sensor. No need for replacement

• SMD circuit board design

• N/C - N/O selectable relay output

• Five-year limited warranty

• Regular 100 mm base or large 125 mm base

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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Model	2 wire	4 wire	Smoke Alarm	Heat Alarm	Remote LED	12VDC	24VDC	UL Approval	Relay Output
iQ458S-2	■		■			■	■	■	
iQ458S-2M	■		■			■	■	■	
iQ458S-4		■	■			■	■	■	■
iQ458-4M		■	■			■	■	■	■
iQ458S-2L	■		■		■	■	■	■	
iQ458S-2LM	■		■		■	■	■	■	
iQ458H-2	■			■		■	■	■	
iQ458H-2M	■			■		■	■	■	
iQ458H-4		■		■		■	■	■	■
iQ458H-4M		■		■		■	■	■	■
iQ458H-2L	■			■	■	■	■	■	
iQ458H-2LM	■			■	■	■	■	■	
iQ458SH-2	■		■	■		■	■	■	
iQ458SH-2M	■		■	■		■	■	■	
iQ458SH-4		■	■	■		■	■	■	■
iQ458SH-4M		■	■	■		■	■	■	■
iQ458SH-2L	■		■	■	■	■	■	■	
iQ458SH-2LM	■		■	■	■	■	■	■	

Specifications:

Voltage: 9-33v
Standby current:50µA
Alarm Current: 80mA for 2 Wire, 40mA for 4 Wire,90mA for 2L & 2LM Models
Surge Current: 170µA
Start up time: 60 Sec
Reset Time: <3 Sec
Reset voltage: <1v
Sample Cycle: 5 Sec
Remote Output: 15mA maximum diode gate
Alarm indicator: Continuously emitting red LED light
Humidity range: 0% to 95% relative humidity,non condensing
Alarm contact: (for 4-wire) N/O or N/C operation, Form A, 1.0 A @ 30 VDC/0.5A @ 125VAC
Height: 46mm, Diameter: 100mm, Weight: 130g with base

iQ568 series Analog Addressable Smoke /Heat detectors

Fireguard IQ series Analog addressable detectors are UL listed compatible with Fireguard iQ series panels.

Fireguard IQ series detectors are engineered to the best quality and durability in accordance with UL standards. iQ Series detector also comes as a multisensor smoke and heat detector. Your perfect choices of reliable smoke /heat detectors that completely meet the strictest testing in UL lab.

Product Features

• Dual LEDs for 360° total visibility

• Advanced detection and communication protocol

• Easy installation and maintenance

• Sleek low-profile design

• Durable sensor. No need for replacement

• SMD circuit board design

• Five-year limited warranty

• Regular 100 mm base or large 125 mm base

Model	Photo electric Smoke	Heat Alarm	Remote LED	Thermal	Voltage DC	UL Approval	Base Model
iQ568D-H		■		59°C	17v-28v	■	iQ5772 iQ5782
iQ568D-HL		■	■	59°C	17v-28v	■	iQ5774 iQ5784
iQ568D-S	■			N/A	17v-28v	■	iQ5772 iQ5782
iQ568D-SL	■		■	N/A	17v-28v	■	iQ5774 iQ5784
iQ568D-SH	■	■		59°C	17v-28v	■	iQ5772 iQ5782
iQ568D-SHL	■	■	■	59°C	17v-28v	■	iQ5774 iQ5784

Specifications:

Smoke sensitivity:(2.12 $\pm$ 0.61)%ft(UL 268 standard) 0.09 to 0.14 dB/m(EN 54-7 standard)
Ceiling Space: 15m rating for heat sensor
Voltage: 17-28v
Standby current:500µA
Start-Up Current: 800µA
Alarm Current: 5mA (Max@24V)
Start up time: 30 Sec
Reset voltage: <3v
Remote Output: 2 mA maximum open collector
Humidity range: 0% to 95% relative humidity,non condensing
IP rating: IP-42
Height: 46mm, Diameter: 100mm, Weight: 150g with base

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