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Global System Technology PLC
The Intelligent Solution

Intelligent Reflective Beam Detector I-9105R



Features and Benefits

1. Wide monitoring area, range 8-100 metres
2. Combination of the emitting and receiving parts makes mounting easy and accurate optical pathway
3. Simple and cost effective to install transmitter and reflective via 'honey comb' mirror.
4. Quick and easy to set up, visual strength indication.
5. Built-in microprocessor
6. Conventional System compatible
7. Self-diagnosis function can monitor for internal faults
8. Automatic compensation for factors weakening received signals, such as dust contamination, positional movement and ageing of the transmitter.
9. Electronically addressed
10. Three selectable levels of sensitivity adjustment.
11. SMT processing technology
12. Attractive and pleasing appearance

Description

I-9105R Intelligent Reflective Beam Detector works on the principle of reflective infrared beam smoke detector that can be directly connected to a fire alarm loop. Transmitting status information via the loop between the detector and controller. The detector must be used together with a reflector. The number of reflector(s) to be used (one or four) depends on the distance from the detector.

Built-in intelligent microprocessor, the detector has strong ability of analysis and judgment. The detector automatically carries out system adjustment, compensation and variation of ambient data.

Secure and speedy communication through the on board processor enables the detector to make its own decision, resulting in greater automation. The sensor and the panels utilized fuzzy logic providing an almost limitless cause and effect scenarios

The detector is ideally suited to historical buildings, warehouses, large storages, shopping malls, leisure centres, exhibition halls, hotel lobbies, printing houses, clothing factories, museums and prisons, as well as places where slight smoke particles or corrosive gas exist.

Technical Specifications

- Standards: BS EN54 Part-12
- Approvals: LPCB, CE
- Protection Rating: IP20*
- Operating Voltage
 - Power Voltage: 24Vdc ($\pm 10\%$)
 - Loop Voltage: 24Vdc
- Operating Current
 - Standby current: 12mA
 - Alarm current: 22mA
- Length of Optical Pathway: 8-100meter
- Monitoring width: 14m
- Monitoring Area: 1400m²
- Operating Temperature: -10°C to +50°C
- Field Programmable Sensitivity: 2 levels
- Relative humidity: 95%
- Application: Indoor use
- Material and Colour: ABS, Gray
- Wiring: 1 pair -24Vdc, 1pair- loop
- Dimensions: 206mmX95mmX95mm

Indication of Detector Status

Commission: Green LED and Yellow LED are lit or flash in a sequence.

Normal monitoring state: Red LED flashes periodically (with loop connected)

Fire: Red LED constantly illuminates, and Yellow LED turns off. The fire signal has to be reset by the controller

Fault: Yellow LED constantly illuminates.

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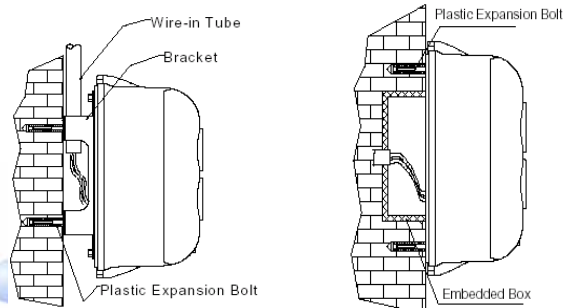
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Intelligent Reflective Beam Detector I-9105R



Mounting the Detector

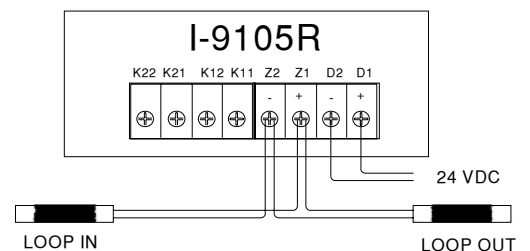
The Intelligent beam detector should be installed in compliance with all local codes having a jurisdiction in your area or NFPA 72 National Fire Alarm Code, NFPA 70 National Electrical Code, BS 5389 and EN54. The detector can be mounted in 2 ways: the installed onto standard two gang electrical box, or directly by drilling the holes and fixing with plugs.



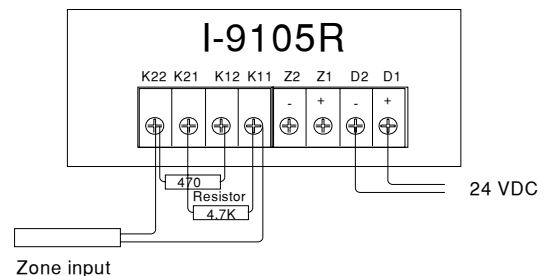
Wiring and Connection

Connect the wires to the required terminal according to the wiring diagram. The D1, D2 is for 24VDC power supply. The Z1, Z2 for loop. For conventional system K11, K12 for Fire output-normally open and K21, K22 for Fault output-normally close. The cable must be fire rated and the size depends on the distance and application. The minimum size gauge 1.0mm²

For addressable Connection



For conventional Connection



Selection of compatible Control Panels

Compatible with all GST Intelligent Fire Alarm Panels GST200-2, GST5000, GST IFP8

Ordering Information:

Part No	Description	Weight /Kg	Pack Qty per Box
I-9105R	Intelligent Reflector Beam Detector	1.3	10

MANUFACTURED IN ACCORDANCE WITH



Note: Specifications are subject to change without notice.

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