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Conventional Reflective Beam Detector C-9105R



Features and Benefits

1. Wide monitoring area, range 8-100 metres
2. Combination of the emitting and receiving parts makes mounting easy and optical pathway accurate
3. Simple and cost effective to install transmitter and reflective 'honey comb' mirror.
4. Quick and easy to set up visual strength indication.
5. Build-in microprocessor
6. Self-diagnosis function can monitor the inner fault.
7. Automatic compensation for factors weakening received signals, such as dust contamination, positional excursion and ageing transmitter.
8. SMT processing technology
9. Attractive and decent appearance

Description

C-9105R Conventional Reflective Beam Detector is an addressable reflective infrared beam smoke detector that can be directly connected to a fire alarm controller, by transmitting status information via bus 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.

With built-in intelligent microprocessor, the detector has strong ability of analysis and judgment. The detector is ideally suited to historical buildings, warehouses, large storages, shopping malls, leisure centers, 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
- Protection Rating: IP20* (IP 66 thru glue seal)
- Operating Voltage
Power Voltage: 24Vdc ($\pm 10\%$)
Loop Voltage: 24Vdc
- Operating Current
Standby current: 12mA
Alarm current: 22mA
- Length of Optical Pathway:
o 8-100meter
- Monitoring width: 14m
- Monitoring Area: 1400m²
- Commissioning Tools: Magnet
- Operating Temperature:
-10°C to +50°C
- Relative humidity: 95%
- Application: Indoor use
- Material and Colour: ABS, Gray
- Wiring: 1 pair -24Vdc, 1pair- loop
- Dimensions: 206mmX95mmX95mm

Indication of Detector State:

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

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 cleared by the controller

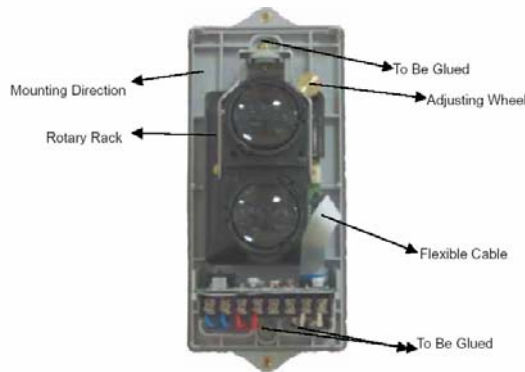
Fault: Yellow LED constantly illuminates.

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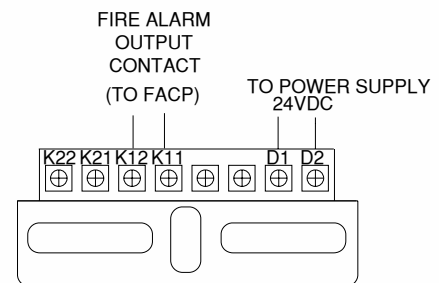
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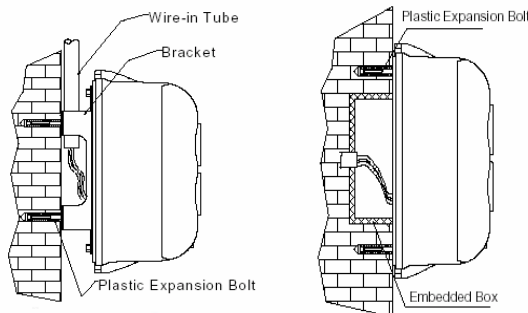
Wiring and Connection

Connect the wires to the required terminal according to the wire diagram. The D1,D2 is for 24VDC power supply. The K11,k12 for fire alarm output contact (passive). The cable must be fire rated and the size depends on the distance and application. The minimum size gauge 1.0mm²



Mounting the Detector

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.



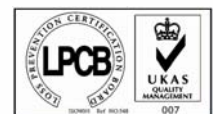
Selection of compatible Control Panels

Compatible with all GST Intelligent Fire Alarm Panels GST 200, GST 5000, GST 9000 with interface module. Compatible with all GST Conventional Fire Alarm Control panel

Ordering Information:

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

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Note: Specifications are subject to change without notice.

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