



I-9105R

Intelligent Reflective Beam Detector



Description

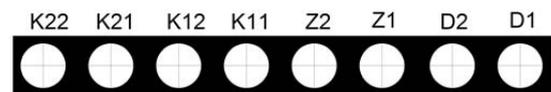
I-9105R Intelligent Reflective Beam detector is addressable reflective infrared beam smoke detector that can be used as Addressable or Conventional. With excellent built-in microprocessor, the detector can carry out system adjustment, drift compensation of ambient data, and judgment of fire and fault through fixed algorithm. The sensitivity of the detector can be set through hand held programmer in field, to suit different application conditions. The detector is suitable to historical buildings, warehouses, large storages, shopping malls, leisure centers, exhibition halls, hotel lobbies, printing houses, clothing factories, museums and prisons

Features and Benefits

- Wide operating voltage range, large monitoring areas.
- Combination of the emitting and receiving part makes mounting easy and optical pathway accurate.
- Built-in microprocessor enables intelligent judgment about fire alarm and fault.
- The detector can calibrate easily, which ensures a single person complete adjustment in short time. It's also convenient to operate.
- Self-diagnostic function can monitor the internal fault.
- Drift compensation for factors changing, such as a certain of dust accumulation, positional excursion and ageing transmitter.
- Electronically addressed by programmer.
- Two sensitivity levels can be set in field.
- Attractive and decent appearance.
- Standard: EN 54-12. LPCB/CPD approved

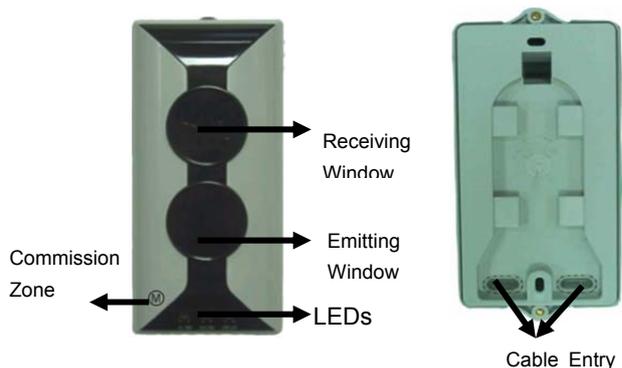
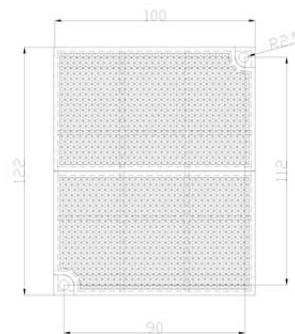
Terminals and Installation

There are four terminals with marks on the base.



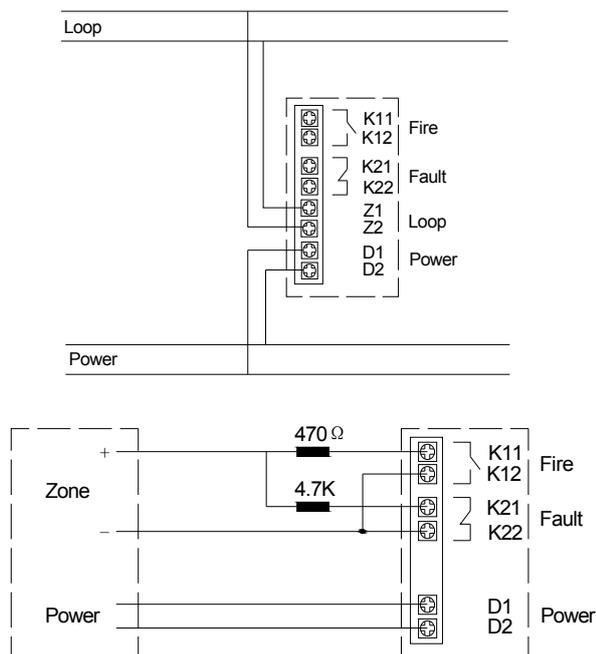
- D1 & D2: 24VDC power supply, non-polarized
- Z1 & Z2: Loop connection for addressable mode, non-polarized
- K11 & K12: Alarm output, normally-open dry contact
- K21 & K22: Fault Output, normally-closed dry contact

Below figures show the detector appearance.



Application

The typical wiring diagram of addressable mode and conventional mode are shown below.



The detector must be used together with reflector(s). The quantity of reflector(s) to be used (1 or 4) depends on the distance from the detector.

Sealing the gaps by glue, the protection rate can reach IP66.

Recommended Cabling

1.0mm² or above fire cable is recommended, but subject to local codes.

Certificates and Compliance

- Standards: CE / CPD / EN54-12
- Certifications: LPCB
- BS5839-1 Compliant
- WEEE & RoHS Compliant

Technical Specification

Operating Voltage	Loop 24VDC (15V~28V)
Commission current	≤20mA
Standby current	≤8mA
Alarm current	≤12mA
Loop Voltage	24V (15V~28V)
Angle of Adjusting	-6° ~ +6°
Maximum angular misalignment	±0.5°
Sensitivity Level	Level 1: 1.61dB Level 2: 2.31dB
Operating Environment	Temperature: -10°C ~ +50°C Relative Humidity≤95%, non condensing
Length of Optical Pathway	8m~100m
Monitoring Area	Maximum monitoring area: 14 x100 =1400m ² Maximum width: 14m
Material and Color of of Enclosure	ABS, Gray
Dimensions	206mm X 95mm X 95mm
Ingress Protection Rating	IP20 without glue-seal IP66 through glue-seal treatment
Weight	450g

Ordering Information and Compatible Products

Part No.	I-9105R
Device Name	Intelligent Reflective Beam Detector
Order Code	1062694
Compatible Products	GST100 Intelligent Fire Alarm Control Panel GST200-2 Intelligent Fire Alarm Control Panel GST200N Intelligent Fire Alarm Control Panel GST- IFP8 Intelligent Fire Alarm Control Panel

Accessories and Tools



Part No.: I-9105R Reflector
Device Name: Reflector
Order Code: 4550905



Part No.: P-9910B
Device name: Handheld Programmer
Order Code: 1274894