



I-9105R

Intelligent Reflective Beam Detector

I-9105R Intelligent Reflective Beam detector (the detector) is an addressable reflective infrared beam smoke detector that can be used as Addressable or Conventional. When it is connected with GST Intelligent fire alarm control panel directly, state information will be transmitted through loop between the detector and the control panel. The detector can be programmed by GST programmer. Code range is within 1~242. When the detector is not connected with GST Intelligent fire panel, the detector will work in conventional mode, fire and fault information will be transmitted by contacts.

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

With excellent built-in microprocessor, the detector has powerful ability of analysis and judgment. 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.

Features

- 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.
- Digital loop protocol.
- Electronically addressed by programmer.
- Two sensitivity levels can be set in field.
- The detector's optical pathway is designed with strong anti-interference ability.
- SMT processing technology.
- Attractive and decent appearance.
- Standard: EN 54-12. LPCB/CPD approved

Application

1. Appearance of the detector is shown in Fig. 1.

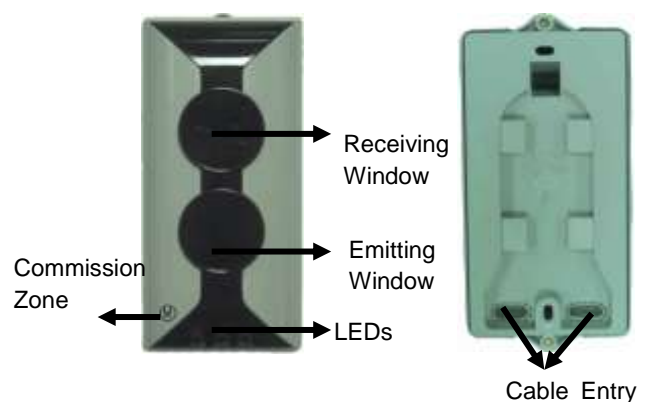


Fig. 1.

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Gulf Security Technology Co., Ltd.

No. 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei, P. R. China 066004

www.gst.com.cn www.utcfireandsecurity.com service.gst@fs.utc.com

2. Internal devices of the detector and positions to be glued are shown in Fig. 2.

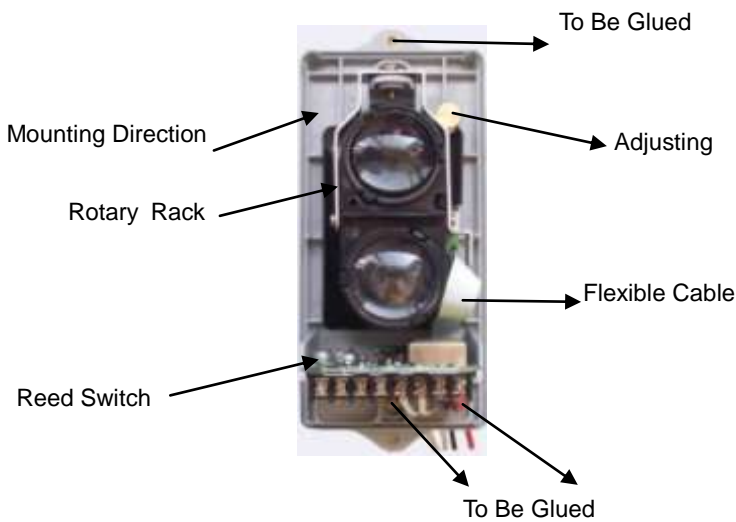


Fig. 2

Application

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, as well as places where slight smoke particles.

Address can be programmed through programmer in field, shows in Fig.3. Refer to the P-9910B Hand Held Programmer Installation and Operation Manual for further details.

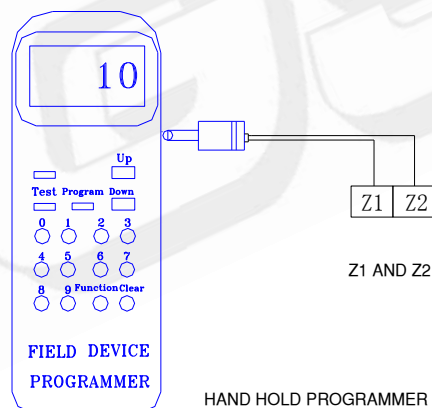


Fig. 3

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
Monitoring Area	Maximum monitoring area: 14×100=1400m ² Maximum width: 14m
Material and Color of the Enclosure	Length of Optical Pathway: 8m~100m
Dimensions	Length: 206mm Width: 95mm Depth: 95mm
Material and Color of Enclosure	ABS, gray
Ingress Protection Rating	IP20 without glue-seal IP66 through glue-seal treatment
Weight	450g

Accessories and Tools

Model	Name	Remark
P-9910B	Hand Held Programmer	Order separately
	Mounting bracket	1 piece, within same
	Reflector	4 pieces, within same
	Test tool	1 piece, within same

Please contact with GST sales for compatible devices.

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