



**I-9105R**

## Descriptions

GST I-9105R is reflective beam detector. It is compatible with all GST intelligent fire alarm system.

I-9105R consists of two parts: detector and reflector. The detector emits infrared light beam and detect the infrared light reflected from the reflector. The microprocessor of detector analyzes the received infrared light and adjudges if there is smoke in the monitored area.

The built-in microprocessor of detector carries out system adjustment, compensation of variation of ambient condition, and judgment of fire alarm and fault alarm through its fixed algorithm, and the detector indicates these states by LED and trigger the output.

The newly designed detector is easy to install, align and adjust. The sensitivity of the detector can be set by handheld programmer (GST-9910B handheld programmer) in field.

The detector is applicable to large spaces such as warehouses, large storages, shopping malls, leisure centers, exhibition halls, hotel lobbies, printing houses, clothing factories, museums and prisons etc, as well as places where slight smoke particles or corrosive gas exist.

## Features

1. Wide operating voltage range, large monitoring area.
2. The reflective detector makes mounting easy and optical path accurate.
3. Built-in microprocessor enables intelligent judgment of fire alarm and fault alarm.
4. The detector can calibrate automatically, which makes that one person to complete the adjustment in short time.
5. Self-diagnosis function can monitor the internal fault.
6. Automatic compensation for the factors that decreases received signals, such as dust contamination, positional excursion and ageing of the transmitter.
7. Provides passive output contacts for fire alarm and fault alarm.
8. Three sensitivity levels can be set in field.
9. The detector's infrared light path is designed with strong anti-interference ability.
10. SMT processing technology.
11. Attractive and decent appearance.

## Specification

- 1, Detecting distance: 8 to 100 m
- 2, Recommended detecting width: 14 m
- 3, Power supply: 24Vdc
- 4, Standby current: 12mA
- 5, Maximum current: 22mA
- 6, Loop voltage: 24Vdc
- 7, Angle of beam adjusting range:  $-6^{\circ}$  to  $+6^{\circ}$
- 8, One fire alarm output:  
NO. contact, 2A, 28Vdc.
- 9, One fault output: NO. contact, 2A, 28Vdc
- 10, Operating temperature:  $-10$  to  $50^{\circ}\text{C}$
- 11, Relative humidity  $\leq 95\%$
- 12, Dimension: 206 x 95 x 95 mm
- 13, Enclosure: ABS
- 14, Color: gray
- 15, Weight: 450g
- 16, Surface mounting hole spacing: 79 x 96 mm