



Conventional Optical Smoke Detector

C-9102

Description

C-9102 Conventional Optical detector. Utilizing an 8 bit processor to analyse the data from the active optical smoke detection chamber, to provide a fast and accurate alarm response with superb false alarm rejection, due to the embedded algorithms. The detector also has built-in Drift Compensation to ensure the device remains in top working condition even in demanding environments.

Features and Benefits

1. Listed to LPCB
2. Sensing chamber for exceptional dust proof ability
3. Built-in Remote Indicator Output
4. Twin LED for 360° vision
5. Low profile design

Selection of Compatible Control Panels

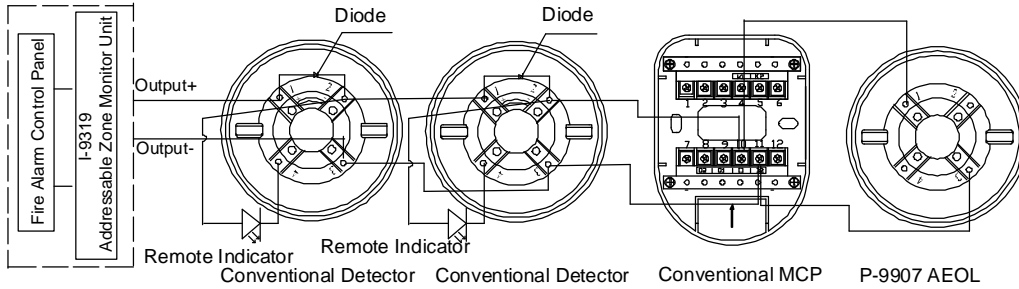
Compatible with all GST Conventional Panels and GST Intelligent Fire Alarm Panels

Technical Specifications

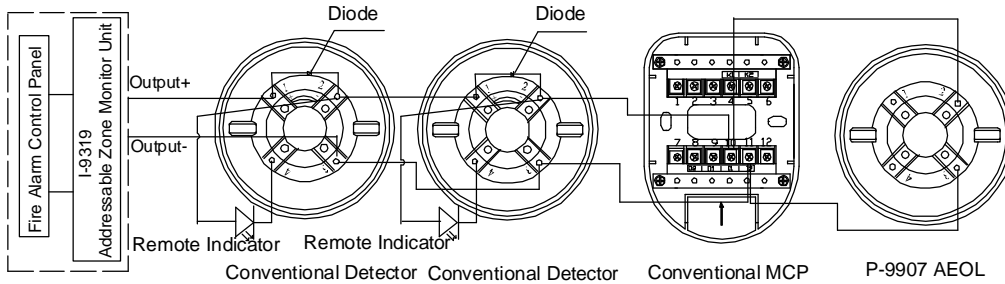
- Standard: EN54:7
- Approval: LPCB, CE-CPD
- Operating Voltage: 24VDC (12VDC~28VDC)
- Standby Current: $\leq 60\mu\text{A}$
- Alarm Current: $10\text{mA} \leq I \leq 30\text{mA}$
- Indicators: Red. Quiet in normal condition. Illuminates steadily in alarm.
- Remote Indicator Output: Directly connecting with LED (built-in $2\text{k}\Omega$ resistor in series). Quiet in normal condition. Illuminates steadily in alarm.
- Maximum Ripple Voltage: 4V (peak-to-peak)
- Alarm Clear: Instantaneous Power-off (5s Max., 2.5VDC Max)
- Power-up Time: $\leq 10\text{s}$
- Max. Wind Speed: 7.6m/s (1500fpm)
- Wiring: Polarized 2-core for detection zone Cable.
- Ambient temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- Relative Humidity: $\leq 95\%$, non condensing
- Ingress Protection Rate: IP23
- Material and Color of Enclosure: ABS, white (RAL 9016)
- Dimensions: Diameter: 100mm
Height: 56mm (with base)
- Mounting Hole Distance: 45mm~75mm
- Weight: About 120g

Wiring and Connection

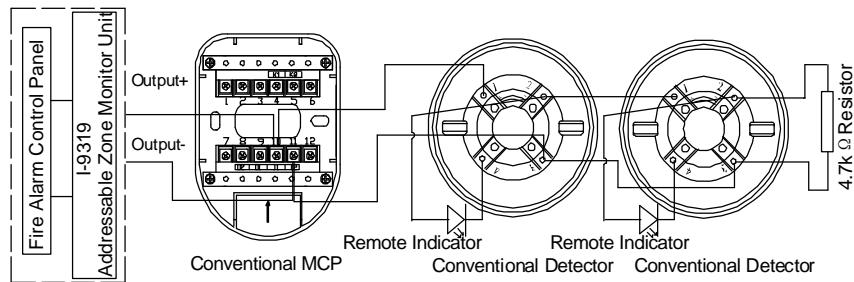
1. When the detector is connected with a conventional fire alarm control panel or an I-9319 addressable zone monitor unit in series, if a P-9907 AEOL is connected to the end of output loop, a 1N5819 Diode should be connected to the detector base. Used as the detector base, the AEOL is to install a conventional detector on it. The system connection is shown below:



When the AEOL is not used as the detector base, a cover should be added, the system connection is shown below:



2. When the detector is connected with a conventional fire alarm control panel (those within the dotted line are equivalent to a conventional fire alarm control panel) or an I-9319 Addressable zone monitor unit in series, if an end of line resistor is connected to the end of output loop, then no diode is connected to the detector base. The system connection is shown below:



Maximum 15 detectors can be connected in one zone. Cooperating with end of line device, the compatible panel can monitor the cable for open circuit and short circuit. Panel will report if any detector is removed. With the AEOL, the functioning of other device will not be affected by the detector removal.

Accessories



Part Number: DZ-03
Description: Detector Base - EOLR
Weight / Kg.: 0.05
Pack Qty. per Box: 300



Part Number: DZ-03D
Description: Base with Diode AOL
Weight / Kg.: 0.05
Pack Qty. per Box: 300

Ordering Information



Part Number: C-9102
Description: Conventional Optical Smoke Detector
Weight / Kg.: 0.123
Pack Qty. per Box: 100

MANUFACTURED IN ACCORDANCE WITH

