Conventional **Ultraviolet Flame** Detector

C-9104

Description

The C-9104 Conventional Ultraviolet Flames Detector senses the ultraviolet (UV) rays emitted by a burning substance and is used in areas where you would expect heat and smoke that would leave the usual option of heat or smoke detectors ineffective, such as generator rooms. Requires DZ03 or DZ03D mounting base.

Features and Benefits

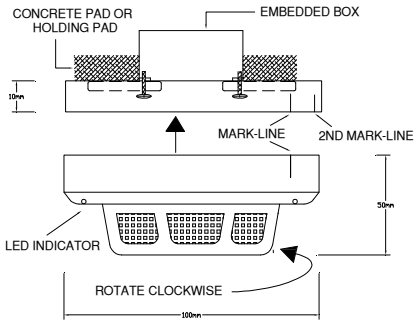
- Dust /corrosion/humidity resistance
- Secure and speedy communication
- Standard calibration set to detect a 3cm flame at 6metres
- Effective range 12 metres
- 80º effective detection dispersion angle
- Twin LED for 360º vision
- Compatible with all GST Conventional Panels and GST Intelligent Fire Alarm Panels using a Zone monitor module

Technical Specifications

- Operating Voltage: 24VDC(12VDC~28VDC)
- Standby Current: ≤1.6mA
- Alarm Current: ≤30mA
- Indicator: Illuminates steadily in alarm.
- Detection Angle: ≤80°
- Monitoring Area:
  $S = (h \times tg\alpha)^2 \pi = 2.21h^2$
  H: Height from the detector to the ground. α=40°
- Operating Temperature: -20℃～+50℃
- Relative Humidity: ≤95%, non condensing
- Dimensions:
  Diameter: 103mm
  Height: 53.5mm (with base)
  Diameter: 100mm
  Height: 41mm (without base)
- Material and Color of Enclosure:
  ABS, white (RAL 9016)
- Weight: About 112g
- Mounting Hole Distance: 45mm～75mm

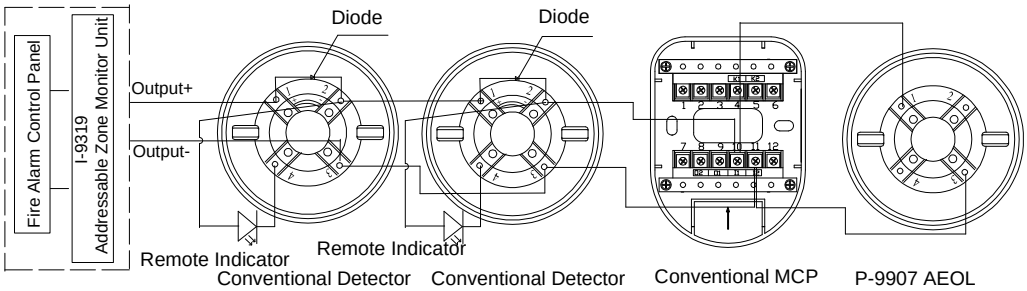
Detector Installation

The combination of fire detection should be installed complied with all local codes and / or NFPA 72 National Fire Alarm Code, NFPA 70 National Electrical Code. Verify the proper wiring and base is firmly mounted to prevent detector damage before the installation. Point the detector in the base by the mark-line and secure the detector in that position by rotates it clockwise until it reaches the next mark line.

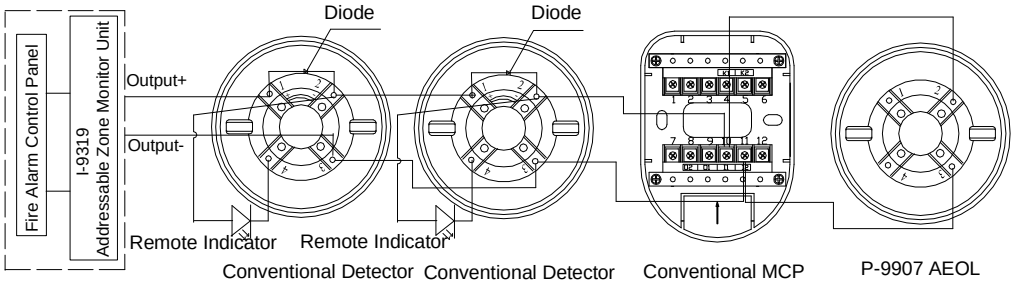


Wiring and Connection

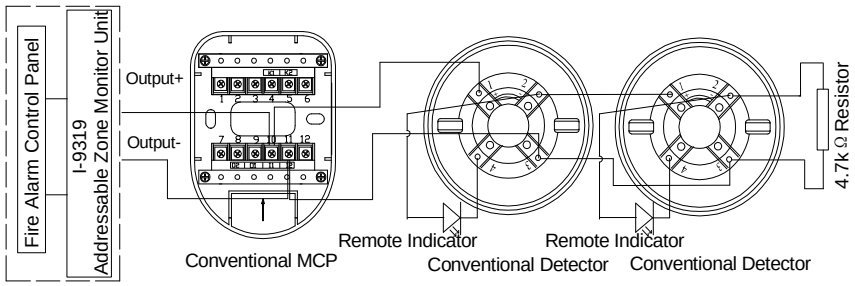
1. When the detector is connected with a conventional fire alarm control panel or an I-9319 addressable zone monitor unit in series, if a P-9907 AEOL is connected to the end of output loop, a 1N5819 Diode should be connected to the detector base.
Used as the detector base, the AEOL is to install a conventional 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: 30

Part Number: DZ-03D
Description: Base with Diode AOL
Weight / Kg.: 0.05
Pack Qty. per Box: 30

Ordering Information

Part Number: C-9104
Description: Conventional Ultraviolet Flame Detector
Weight / Kg.: 0.123
Pack Qty. per Box: 100

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