



548d(cl-5) 0832-CPD-0522

Conventional Dual Heat Detector

C-9103

Description

The C-9103 Conventional Rate of Rise and Fixed Temperature Heat, utilizes 2 independent heat sensing elements controlled via an onboard intelligent 8 bit processor, sensing for any abnormal temperature increase over a variable period of time, or should the ambient temperature reach the preset alarm threshold. Ideal for dusty areas where normal smoke detectors would not be effective.

Features and Benefits

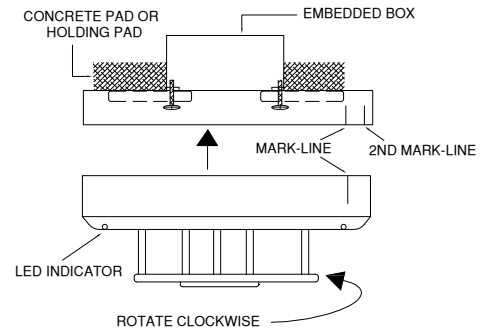
1. Listed to LPCB
2. Fixed Temperature and Rate of Rise Detection
3. Built-in Remote Indicator Output
4. Twin LED for 360° vision
5. Low profile design

Technical Specifications

- Standard: EN54:5
- 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 indication output: Directly connecting with remote indicator (built-in $2\text{k}\Omega$ resistor in series.). Quiet in normal condition. Illuminates steadily in alarm.
- Maximum Ripple Voltage: 4V (peak-to-peak value)
- Alarm Clear: Instantaneous Power-off (5s Max., 2.5VDC Max)
- Power up Time: $\leq 10\text{s}$
- Action Temperature: 58°C
- Class: A1R
- Wiring: Polarized 2-core for detection zone cable.
Polarized 2-core for remote indicator.
- Operating Temperature: $-10^\circ\text{C} \sim +50^\circ\text{C}$
- Relative Humidity: $\leq 95\%$, non condensing
- Ingress Protection Rating: IP33
- Material and Color of Enclosure: ABS, white (RAL 9016)
- Dimensions: Diameter: 100mm / Height: 58mm (with base)
- Mounting Hole Distance: 45mm~75mm
- Weight: About 120g

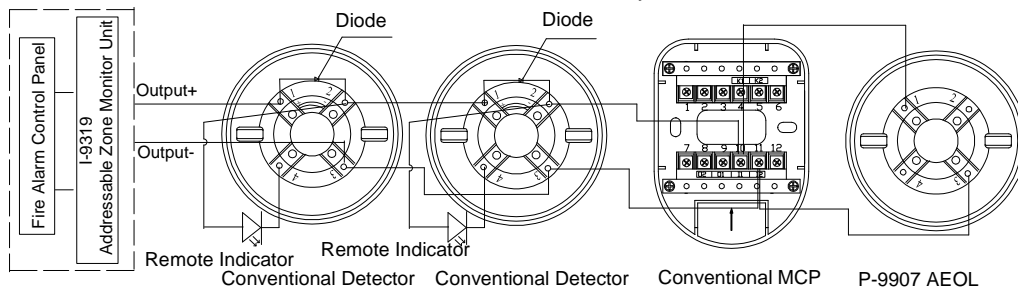
Detector Installation

The detector should be installed in compliance with all local codes having a jurisdiction in your area or BS 5389 Part 1 and EN54. Before installation verify the proper wiring and base are 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 rotating it clockwise until it reaches the next mark line. Do not remove red plastic dust cover until the final handover is done.

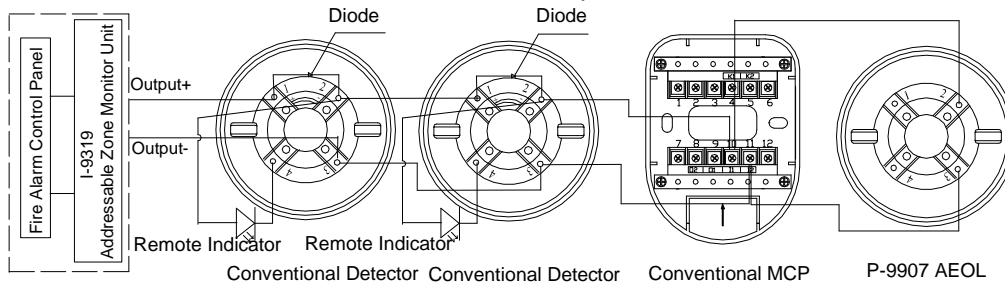


Wiring and Connection

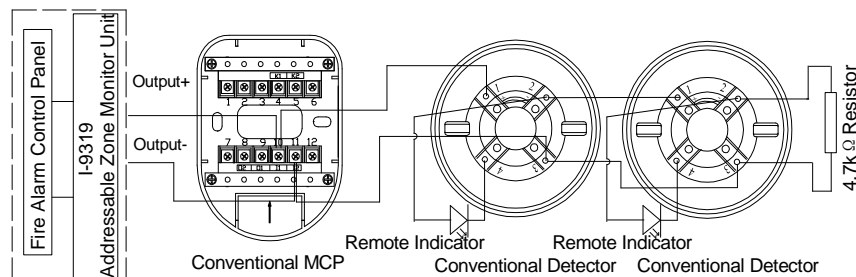
1. When the detector is connected with a conventional fire alarm control panel or an I-9319 addressable zone monitor unit in series, if a P-9907 AEOL is connected to the end of output loop, a 1N5819 Diode should be connected to the detector base. Used as the detector base, the AEOL is to install a conventional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

Selection of Compatible Control Panels

Compatible with all GST Conventional Panels and GST Intelligent Fire Alarm Panels using Zone monitor module:

Ordering Information



Part Number: C-9103
Description: Conventional Dual Heat Detector
Weight / Kg.: 0.123
Pack Qty. per Box: 100

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

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