



# Innovation Conventional Multi Sensor Detector

DC-9101

## Description

DC-9101 is a multifunctional and highly reliable detector that able to sense fire cause by polyurethane and heptanes fire. And also detect fire with obvious rise of temperature such as alcohol fire.

With all the combined features of standard optical and heat detector makes this suitable for application in data processing area like computer room and telephone exchange.

## Technical Specifications

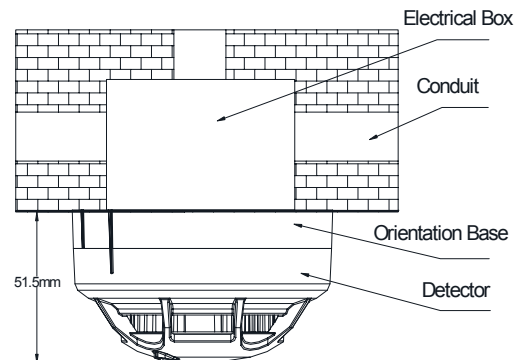
- Operating Voltage: 24VDC (12VDC~28VDC)
- Standby Current:  $\leq 60\mu\text{A}$
- Alarm Current:  $10\text{mA} \leq I \leq 30\text{mA}$
- Maximum Ripple Voltage: 2V (peak-to-peak value)
- Indicator: Red  
(flashes in polling and illuminates in alarming)
- Alarm Clear: Instantaneous Power-off  
(10s MAX., 1.5VDC MAX.)
- Power-up Time:  $\leq 5\text{s}$
- Action Temperature:  $58^\circ\text{C}$
- Class: A2R
- Rate of Rise:  $3^\circ\text{C}/\text{min}$
- Wiring: Polarized two-wire for power
- Ingress Protection Rating: IP22
- Environment Temperature:  $-10^\circ\text{C} \sim +50^\circ\text{C}$
- Relative Humidity:  $\leq 95\%$ , non condensing
- Material and Color of Enclosure:  
ABS, white (RAL9016)
- Dimensions: Diameter: 100mm  
Height: 56mm (with base)
- Mounting Hole Distance: 45mm~75mm
- Weight: 126g

## Features and Benefits

- Multifunctional and highly reliable detector
- Sensing chamber for exceptional dust proof ability
- Twin LED for  $360^\circ$  vision
- Low profile design

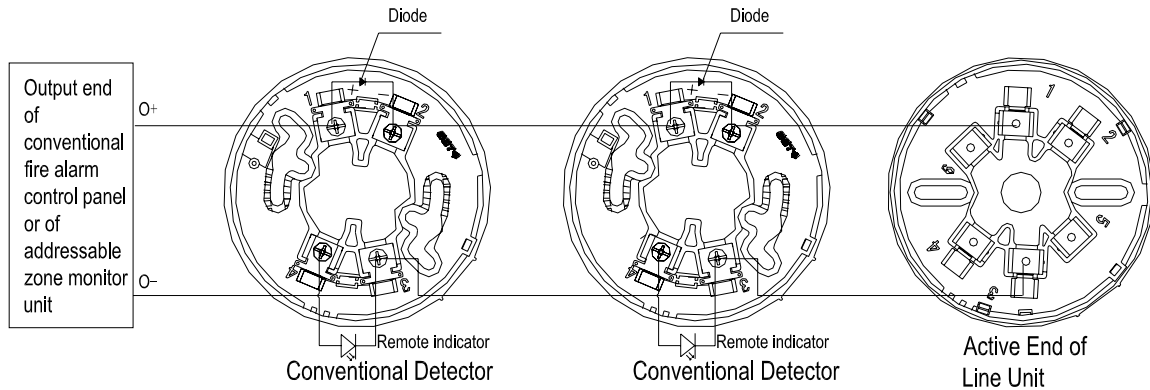
## Detector Installation

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.

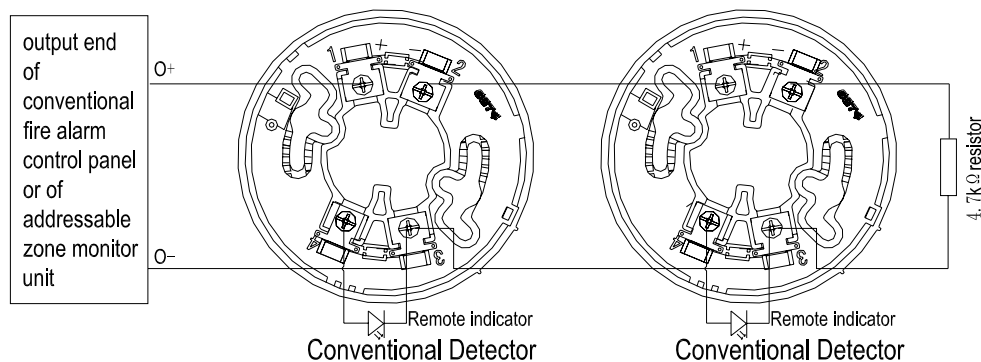


## Wiring and Connection

1. When the detector is connected with conventional fire alarm control panel or 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. 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 conventional fire alarm control panel (those within the dotted line are equivalent to a conventional fire alarm control panel) or 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 panel and GST Intelligent Fire Alarm Panels using Zone monitor module:

## Ordering Information



**Part Number:** DC-9101  
**Description:** Innovation Conventional Combined Optical Smoke and Dual Heat Detector  
**Weight / Kg.:** 0.123  
**Pack Qty. per Box:** 100

## Accessories



**Part Number:** DB-01  
**Description:** Detector Base - EOLR  
**Weight / Kg.:** 0.05  
**Pack Qty. per Box:** 300



**Part Number:** DB-01D  
**Description:** Base with Diode AOL (P-9907)  
**Weight / Kg.:** 0.05  
**Pack Qty. per Box:** 300

