UTC Fire & Security
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GST
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Innovation Conventional **Dual Heat Detector**

DC-9103

Description

DC-9103 Innovation Conventional Dual Heat Detector is GST's new generation fire detection product. The detector adopts advanced digital technology and self-diagnostic technology, which greatly improve detector response rate and make the maintenance more convenience.

DC-9103 has rate of rise and fixed temperature mode. The rate-of-rise feature detects intense fires by quickly responding to rapid temperature increases. The fixed temperature feature reacts to fires when a specific temperature is reached.

Features and Benefits

- Built in microprocessor
- Built in magnetic test switch
- Algorithm maps for faster response and false alarm rejection
- With drift compensation to ensure constant sensitivity
- Built in remote indicator output
- Unique Low profile design
- EN54 compliance

Selection of compatible Control Panels

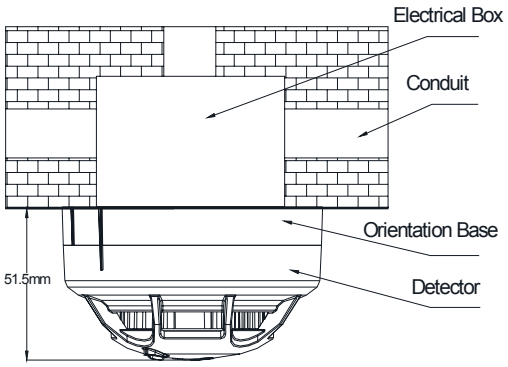
Compatible with all GST Conventional panel and GST Intelligent Fire Alarm Panels using Zone monitor module:

Technical Specifications

- Operating Voltage: 12VDC～28VDC
- Standby Current: ≤60μA
- Alarm Current: 10mA≤I≤30mA
- Fire LED: Red. Flashes periodically (2s～4s) in polling; illuminates in alarming.
- Remote indication output:Directly connecting with remote indicator (built in 2k resistor in series, output voltage is 5V); don't illuminate when in polling; illuminate in alarming.
- Maximum Ripple Voltage: 2V (peak-to-peak)
- Alarm Reset:Instantaneous Cut out (2s Min, 2.5VDCMax.)
- Power-up Time: ≤10s
- Action Temperature: 58℃
- Response Velocity: 3℃/min
- Wiring: Two-wire, polarity-sensitive
- Ingress protection Rating: IP22
- Ambient Temperature: -10℃～+50℃
- Relative Humidity: ≤95%, non condensing
- Material and Color of Enclosure: ABS, white (RAL 9016)
- Dimensions: Diameter: 100mm
  High: 41.8mm (without base)
- Mounting Hole Spacing: 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.



Ordering Information

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

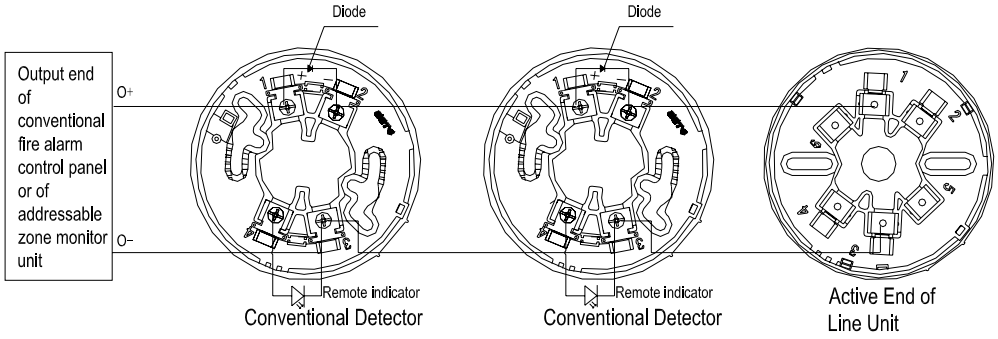
Accessories

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

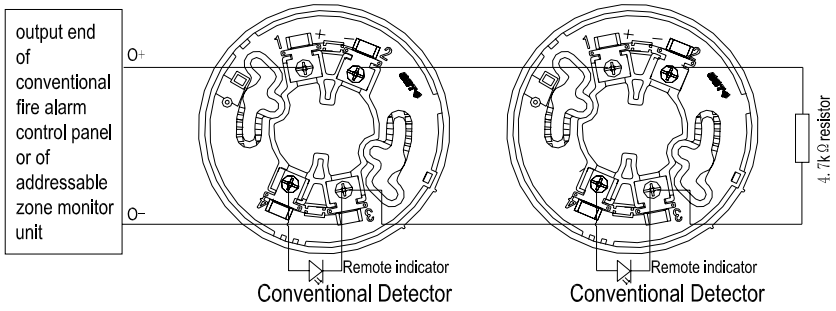
Part Number: DB-01D
Description: Base with Diode AOL (P-9907)
Weight / Kg.: 0.05
Pack Qty. per Box: 300

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.

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