



Intrinsically Safe Dual Heat Detector

C-9103 Ex

Description

C-9103 (Ex) Explosion-proof Rate of Rise and Fixed Temperature Heat Detector is applicable to Zone 1 and Zone 2 of areas with explosion-proof requirement in petroleum and chemical industries.

It can match with I-9332 Interface connected with GST fire alarm controller, explosion-proof detector to conduct the processing of detector signals.

Features and Benefits

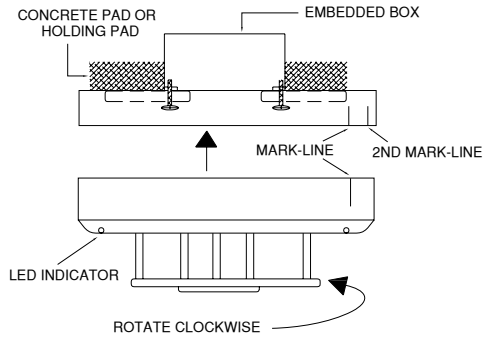
- Fixed Temperature and Rate of Rise Detection
- Twin LED for 360° vision
- Low profile design
- Initiated by fire alarm point using I-9332Ex Interface

Technical Specifications

- Operating Voltage: DC24V, range allowed: DC16V
- Operating Current:
- Standby: ≤60mA; Alarm: ≤30mA
- Alarm Temp: 58 °C/3 °C Rate of Rise
- Safety Barrier Parameters: $U_0=28VDC$, $I_0=93mA$
- Indicator: RED –Steady on alarm
- Remote Indicator output: Directly connecting with indicator (built-in 5.1kΩ resistor, maximum output current is 5.0mA). Quiet in normal condition. Illuminates steadily in alarm.
- EX Mark: ExibIICT6
- Class: A1R
- Dimension:
- Diameter: 100mm, Height: 42mm (excluding the base), 56mm (with base)
- Operating Environment:
- Temperature: -10°C+50
- Relative Humidity: ≤95%, no condensation
- Monitoring Area: When space height is 6m to 12m, the monitoring area of a detector is 80m² for normal protection area; when space height is less than 6m, it is 60 m².
- Protection Level: IP33
- Material and Color of Enclosure: ABS (Surface resistance ≤109Ω), white (RAL 9016)

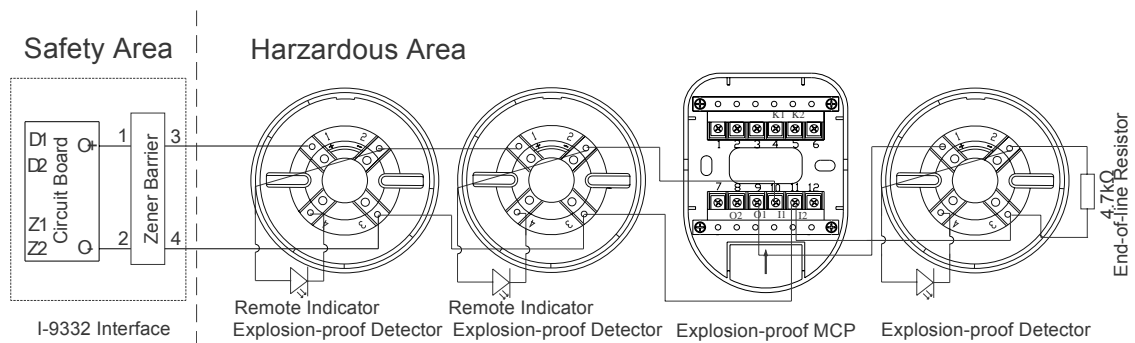
Detector Installation

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.



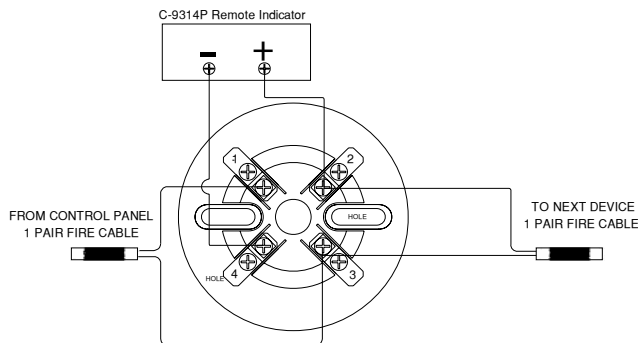
Wiring and Connection

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.



Sample wiring diagram above show detectors are connected with I-9332 Interface. There are four terminals with numbers on the explosion-proof orientation base:

- Terminal 1: Detection zone positive IN
- Terminal 2: Detection zone positive OUT
- Terminal 3: Detection zone negative IN and OUT
- Terminal 2: Positive terminal of remote indicator
- Terminal 4: Negative terminal of remote indicator



Selection of Compatible Control Panel

Compatible with all GST Intelligent Fire Alarm Panels via I-9332 Explosion Proof Interface and GST-AS-Series for conventional panel (purchased separately)

Ordering Information



Part Number: C-9103EX
Description: Intrinsically Safe Dual Heat Detector
Weight / Kg.: 0.120
Pack Qty. per Box: 100

Accessories



Part Number: DZB
Description: Intrinsically Safe Detector Base
Weight / Kg.: 0.050
Pack Qty. per Box: 300



Part Number: I-9332
Description: Interface Module for Intelligent Panel
Weight / Kg.: 1.5
Pack Qty. per Box: 1



Part Number: GST-AS-100
Description: Zener Barrier with case for conventional Panel



Part Number: GST-AS-200
Description: Zener Barrier with grounding and polarized for conventional Panel



Part Number: GST-AS-300
Description: Zener Barrier with grounding and non-polarized for conventional Panel

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