



Intelligent Ultraviolet Flame Detector

I-9104

Description

The I-9104 Intelligent Ultraviolet Flame Detector capable of detecting the ultraviolet (UV) rays emitted by a burning substance, ideal for areas where you would expect heat and smoke but not flames such as boiler and generator rooms, also suitable for high hazard applications such as petrochemical plants, munitions factories and other areas where flammable or explosive liquids or solids are handled or stored.

The I-9104 sensor provides an ultraviolet photosensitive tube, with highly sensitive, reliable, dust-resistant, corrosion-proof and moisture-resistant qualities. The detector will initiate an alarm when a flame > 3cm is detected at a distance of up to 6 meters, with a total effective range of up to 12 meters.

The integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, then within milliseconds confirms these patterns with the pre-programmed fire scenarios and flame patterns, for a faster and safer response. .

Secure and speedy communication through the onboard processor enables the detector to make its own decision, resulting in greater automation. The sensor and the panels utilize 'fuzzy logic'- providing almost limitless cause and effect scenarios.

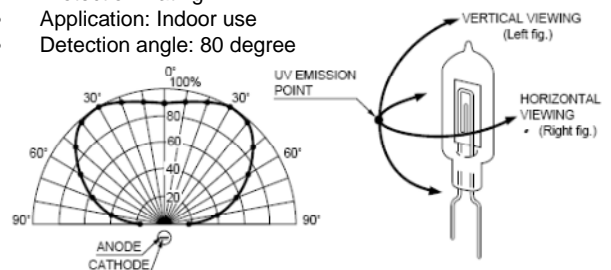
Electronic addressing can be done through a Handheld Programming device (P-9910B). This device is available for purchase separately.

Features and Benefits

- Built in 8 bit microprocessor
- Dust /corrosion/humidity resistant
- Secure and speedy communication
- Self diagnosis and history log
- Standard calibration set to detect a 3cm flame at 6metres
- Effective range up to 25 meters
- 110° effective detection dispersion angle
- Electronic addressing
- Twin LED for 360° vision

Technical Specifications

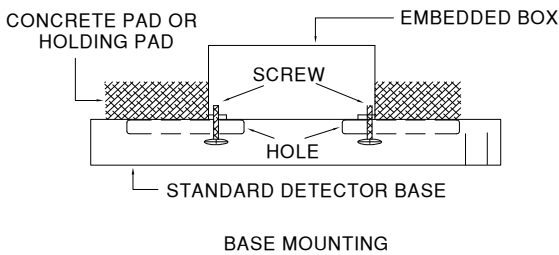
- Protection rating: IP 32
- Operating voltage: 24Vdc (12-28VDC) Loop powered
- Operating Current: Standby current 2.0mA
Alarm Current 2.5mA
- Operating temperature:-20°C to +55°C
- Relative humidity: 95%
- Spectral Response Range: 185nm~260nm
- Protection Rating: IP 21
- Application: Indoor use
- Detection angle: 80 degree



- Programmable sensitivity: 3 levels
L1-25meters, L2-17meters, L3-12meters
- Visual Indicator: LED, Red (lit steady when alarm, 3 sec interval blinking at normal state)
- Material and colour: ABS, off-white
- Wiring: 1 pair non polarized
- Dimensions: diameter 10cm; height 5cm

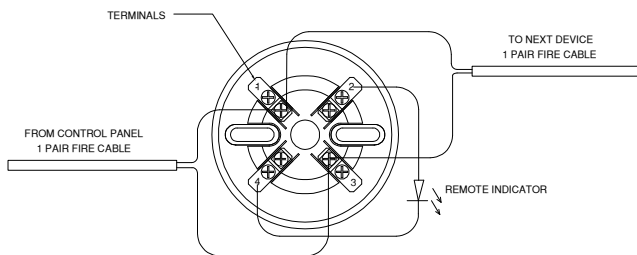
Standard Base

The detector is mounted using our standard base DZ-03. Multiple-direction design allows easy direction adjustment. Suitable for surface mount only, mount onto standard one gang electrical box with a mounting hole that have 65mm spacing.



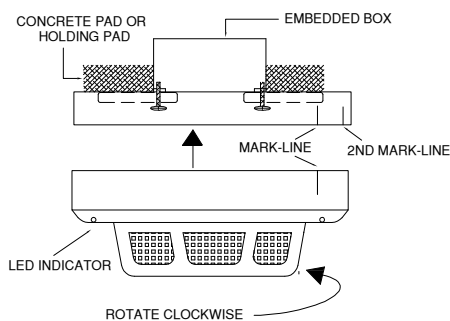
Wiring and Connection

Connect the wires to the required terminal according to the wiring diagram. Terminal 1 and 3 is for loop bus. The cable must be fire rated type and the size depends on the distance and application. Minimum size gauge 1.0mm².



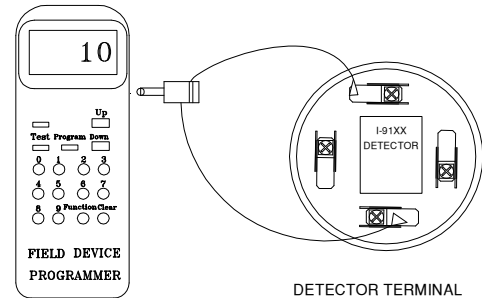
Detector Installation

The Intelligent ultraviolet flame 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.



Programming

The address of the detector can be programmed using GST handheld programmer (P-9910B), purchased separately. Connect the two wires of the handheld programmer to terminals 1 and 3 (no polarity) of the detector.



FIELD DEVICE PROGRAMMER

DETECTOR TERMINAL

Selection of Compatible Control Panels

Compatible with all GST Intelligent Fire Alarm Panels GST100, GST200-2 Series and GSTIFP8.

Ordering Information



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

Accessories



Part Number: DZ-03
Description: Standard Detector Base
Weight / Kg.: 0.050
Pack Qty. per Box: 300



Part Number: C-9504
Description: Base Mount Circuit Isolator
Weight / Kg.: 0.010
Pack Qty. per Box: 120



Part Number: I-9406
Description: Addressable Sounder Beacon Base
Weight / Kg.: .20
Pack Qty. per Box: 30



Part Number: C-9314P
Description: Remote Indicator
Weight / Kg.: 0.03
Pack Qty. per Box: 270

