

DC-9102(IS)

Intrinsically Safe Conventional Photoelectric Smoke Detector



Ex

Description

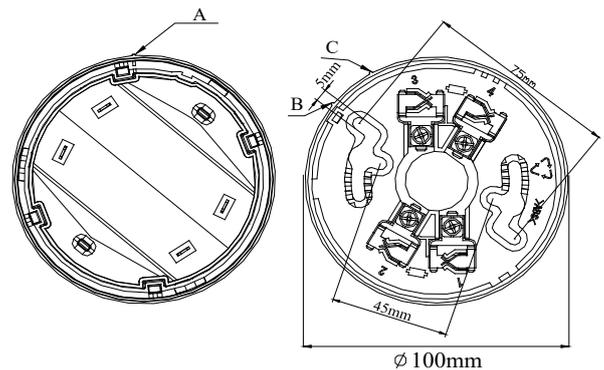
DC-9102(IS) Intrinsically Safe Conventional Photoelectric Smoke Detector is a non-addressable detector, applicable to Zone 1 and Zone 2 of areas with explosion-proof requirement in petroleum, chemical industries and vessels.

Features and Benefits

- Drift compensation enables strong environmental adaptability
- Integrated algorithm for analyzing fire, improving the sensitivity highly
- Self-diagnostic
- Removable innovative sensing chamber, easy for maintenance
- Fire LED allows 360°viewing

Terminals and Installation Holes

Below figures show the detector bottom and terminals of the base.



- 1: Detection zone positive IN
- 2: Detection zone positive OUT
- 3: Detection zone negative IN and OUT
- 4: Physical fix only

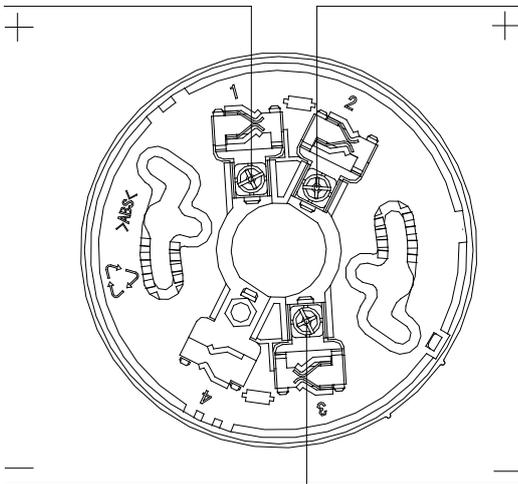
Recommended Cabling

1.0mm² or above fire cable is recommended, laid through metal or flame-retardant conduit, but subject to local codes.

The capacitance distributed among cables should not be over 0.083µF, and the inductance distributed should not be over 4.1mH

Application

The wiring diagram is shown below



Technical Specification

Operating Voltage	24V (16V ~ 28V)
Standby Current	≤60uA
Alarm Current	≤30mA
Indicator	Red. Flashes in polling, and illuminates in alarm
Explosion-proof Mark	Ex ib IIC T6 Gb
Explosion-proof Certificate	CE16.2158
Zener Barrier	Uo=28V, Io=93mA, Co=0.083uF, Lo=4mH, Po=651mW
Alarm Reset	Instantaneous Power-off (5s Min, 2.5VDC Max)
Environment Temperature	-10°C ~ +55°C
Relative Humidity	≤95%, non condensing
Material of Enclosure	ABS
Dimensions	Diameter: 100mm Height: 54.5mm (with base)
Mounting Hole Distance	45mm ~ 75mm
Weight	About 110g

Certificates and Compliance

- Explosion-proof Mark: Ex ib IIC T6 Gb
- Explosion-proof Certificate: CE16.2158

Order Information

Part No.	DC-9102(IS)
Device Name	Intrinsically Safe Conventional Photoelectric Smoke Detector
Product No.	10105034
Compatible Products	I-9332 Flame Proof Zone Monitor Interface

Accessories and Tools



Part No.: DB-01(IS)
Device name: Detector Base
Product No.: 30205765