DI-9102E

GST Intelligent DI-9000E Series Addressable Optical Detector

General

The Intelligent DI-9102E optical detector uses light scattering technology combined with a high performance optical chamber making it suitable for detecting slow burning and smouldering fires. It allows for 2 different smoke sensitivity levels to be configured.

Applications

The DI-9102E is a general application detector and is therefore suitable for applications such as hotels, restaurants, office buildings, schools, banks, warehouse, libraries, computer rooms, switch rooms and many more.

Overview

The GST DI-91xxE series intelligent detectors all feature the latest GST digital loop protocol and are compatible with the GST200N and GST-IFP4E intelligent fire alarm control panels. This enhanced digital communication protocol offers the possibility for the detectors to raise an alarm within 1 second, allowing more control and better and faster processing at the CIE.

All the DI-9000E series detectors may be installed onto the common detector base and allow for the connection of a common remote indicator.



Details

- Electronic addressing safeguarding against uncontrolled address changes
- Intelligent detection algorithm for analysing optical smoke signals and recognising dark smoke quickly.
- Drift compensation allows for good environmental adaptability
- Self-diagnostic testing ensuring reliability at all times
- Chamber contamination checking and reporting
- Removable innovative sensing chamber
- Local reed-switch test activation for easy maintenance
- Alarm LED with 360° visibility
- Remote indicator output
- Configurable polling LED support
- 2 Smoke sensitivity levels
- Local event storage
- LPCB marked

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Technical specifications

General

Status indication	LED
Compatibility	GST DI-9000E systems
Alarm levels	2
Event log	14 events
Connectivity	2-wire loop & remote indicator
Addressing method	Electronic

Electrical

Power supply type	Loop powered
Operating voltage	16 to 28 VDC (24 VDC typical)
Current consumption	≤800 µA (quiescent) ≤1.8 mA (alarm)

Detection

Detection principle	Optical light scatter

Output

Output quantity	1
Remote alarm output	2 mA

Physical

Physical dimensions	100 x 44.5 mm (Ø x H)
Shipping weight	±110 g
Colour	White (RAL 9016)
Mounting type	Ceiling mount
Material (body)	ABS

Environmental

Vandal proof	No
Operating temperature	-10 to +50°C
Relative humidity	≤ 95% noncondensing
Environment	Indoor
IP rating	IP2x

Regulatory

Compliancy	CE, REACH, RoHS, WEEE
Certification	CPR
Standards	EN54-7 BS5839-1 compliant

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