DC-9102E

DC9000 Series conventional optical smoke detector

General

The DC-9102E is a photoelectric (optical) detector suitable for use in hotels, restaurants, office buildings, schools, banks, warehouses, libraries, computer rooms, switch rooms, etc.

Application

The detector supports installation on the GST DB-01 conventional detector base for standard applications, or the GST DB-01D diode base when head-out functionality to BS5839 standard is required. Detection sensitivities are programmable using the GST P-9910B device programmer.



Details

- Supports drift compensation to enable good environmental adaptability
- Self-diagnostic
- Local test activation with reed switch
- Chamber contamination checking
- All round LED visibility (360° viewing angle) avoids time spent on specific detector orientation
- Configurable polling LED support
- Remote indicator output
- Removable sensing chamber for for easy maintenance
- 2 Programmable smoke sensitivity levels

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Technical specifications

General

Status indication	Red LED
User interface	Via LED - polling, fault, contamination and alarm
Compatibility	GST100A Series conventional CIEs as well as GST I-9319 Zone Monitor
Reset voltage	<1 VDC
Reset time	>2 s
Alarm levels	2
Connectivity	Zone connection - 2-core (polarity sensitive), RI connection - 2-core (polarity sensitive)

Electrical

Operating voltage	16 VDC to 28 VDC (24 VDC typical)
Current consumption	<60 µA (Quiescent) ≤55 mA (Alarm)
Cable specification	>1.0 mm²
No. of cable cores	2
Terminals	4

Detection

Detection principle	Optical
Sensitivity	Programmable
Zone length	Panel dependent

Output

Remote alarm output	1

Physical

Physical dimensions	54.5 mm (including base) x 100 mm Ø
Net weight	±110 g
Colour	White
Mounting type	Ceiling mount
Material (body)	ABS

Environmental

Vandal proof	No
Operating temperature	-10 to +50°C (Class A1/A2) -10 to +65°C (Class B)
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP2x

Regulatory

Compliancy	CE, WEEE
Certification	EN54-7
Standards	LPCB

Compatible products

Category	Reference	Description
Detection device	DB-01	DC9000 / DI9000 Series standard point detector base
Detection device	DB-01D	DC9000 Series standard point detector base with diode
Notification device	C-9314P	DC9000 / DI9000 Series conventional remote indicator

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