DC-9101E

DC9000 Series conventional multisensor fire detector

General

The DC-9101E combines photoelectric (optical) detection, fixed temperature and rate-of-rise detection technology. The smoke and heat sensors are integrated to provide a solution to a wide range of applications, allowing detecting of more complex fire types. Amongst these include are fire types generating black smoke as well as small particles fires such as those from burning alcohol.

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
- 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 & Heat
Sensitivity	Programmable
Zone length	Panel dependent
Heat Class	A2R
Activation temperature	62°C

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
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP2x

Regulatory

Compliancy	CE, WEEE
Certification	EN54-5, EN54-7
Standards	LPCB

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