DC-9503E

DI9000 Series intelligent loop isolator

General

The DC-9503E is a standalone loop isolator for overload and short circuit protection of GST DI-9000E series addressable fire panel loops.

Operation

A partial or full short circuit condition on an addressable fire detection loop will adversely affect the functionality of multiple or even all devices connected to that loop. The DC-9503E short circuit isolator prevents a complete loop failure by isolating the problematic loop section from the rest of the loop, ensuring the continued normal operation of the devices outside the affected section.

Once the fault condition is cleared, the DC-9503E reconnects the affected section automatically back onto the loop allowing normal operation for the whole loop.

Diagnostics

A convenient LED indicator on the unit indicates the presence of an isolated condition, allowing the service engineer to quickly locate the affected loop section.

Details

- Protects against loop overload conditions due to partial of full short circuits
- Automatically resets when condition is cleared
- Din-rail or surface mount
- Local LED status indication
- Ground fault detection support
- EN54-17 certified and LPCB marked

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Technical specifications

General

Status indication	LED
Compatibility	GST DI-9000E systems
Connectivity	2-wire loop
Addressing method	No addressing required

Electrical

Power supply type	Loop powered
Operating voltage	24 VDC (16 to 28 VDC)
Current consumption	≤ 0.2 mA (Standby) ≤ 1.5 mA (Active)
Cable specification	≥ 1.0 mm²
No. of cable cores	2
Terminals	6

Isolation

Isolation voltage	8 V
Reconnect voltage	11 V
Switch current	1 A
Leakage current	7.5 mA
Series resistance	0.15 Ω

Physical

Physical dimensions	78 x 45.3 x 28.5 mm
Shipping weight	± 41.4 g
Colour	Traffic white (RAL9016)
Mounting type	DIN-rail, Surface mount
Material (body)	ABS

Environmental

Vandal proof	No
Operating temperature	-10 to +55°C
Relative humidity	≤ 95% noncondensing
Environment	Indoor
IP rating	IP20

Regulatory

Compliancy	CE, REACH, RoHS, WEEE
Certification	CPR
Standards	EN54-17 LPCB Marked

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