DC-9504E
Base Mount Isolator

548n/03 2831-CPR-F0869 GST-0017-01 15

Description

In loop type fire alarm system, it often occurs that partial short circuit of loop affects the whole system. DC-9504E Loop Isolator can isolate the shorted circuit from the complete loop to ensure normal operation of other parts and locate the isolated part.
The isolator is applicable to all kinds of loop fire alarm systems, suitable for Class A and Class B.
As a base type, the isolator can be used to replace a common base, to save installation and cabling.

Features and Benefits

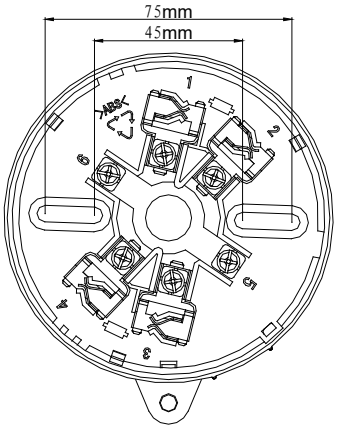
- Polarity-sensitive external connections. Input and output can be used inversely without direction.
- Delayed power-up to output end devices, avoids strong transient current when the load is heavy.

Certificates and Compliance

- Standards: EN 54-17
- Certifications: LPCB

Terminals and Installation Holes

Below figure shows terminals on the isolator base.



1, 3: Loop output cable, 1 is positive and 3 negative.
5, 6: Loop input cable, 5 is negative and 6 positive.
2, 4: Remote indicator output.

Recommended Cabling

1.0mm2 or above fire cable is recommended， but subject to local codes.

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https://www.gst.com.cn/en/about.asp

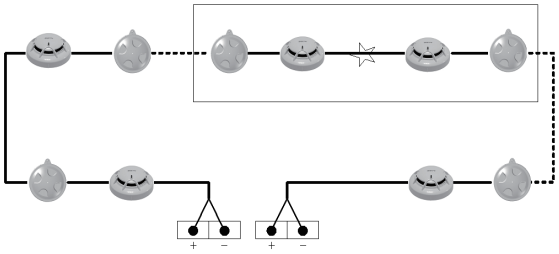
Application

The base mount isolator is usually installed instead of a detector base, and also can be mounted alone with a cover.

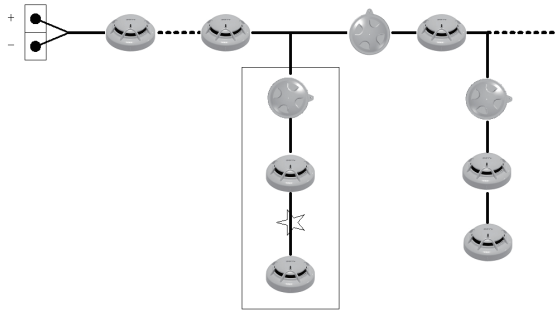
To ensure the operation of isolator and follow the EN54-17 standard, maximum 70 devices can be connected between each 2 isolators, but should be subject to local codes.

The loop can be Class A or Class B type. Below figures show the loop schematic.

Class A:



Class B:



Order Information and Compatible Products

Part No.	DC-9504E
Device Name	Loop Isolator
Product No.	10105103
Compatible Panels	GST100 Intelligent Fire Panel GST200 Intelligent Fire Panel GST200-2 Intelligent Fire Panel GST200N Intelligent Fire Panel GST-IFP8 Intelligent Fire Panel
Compatible Detectors	DI series intelligent detectors

Technical Specification

Maximum Operating Voltage (V_{MAX})	28VDC
Operating Voltage (V_{NOM})	24V
Minimum Operating Voltage (V_{MIN})	16V
Maximum Open Voltage ($V_{SO\ MAX}$)	11V
Minimum Open Voltage($V_{SO\ MIN}$)	8V
Maximum Close Voltage($V_{SC\ MAX}$)	4V
Minimum Close Voltage ($V_{SC\ MIN}$)	1.4V
Maximum Continuous Current($I_{C\ MAX}$)	1A
Maximum Transient Output Current($I_{S\ MAX}$)	5A
Maximum Leakage Current($I_{L\ MAX}$)	7.5mA
Max closed impedance ($Z_{C\ MAX}$)	0.15Ω
Standby Current:	≤0.1mA
Action LED	Yellow. It flashes in standby state, and lights in action.
Capacity	Maximum 70 devices,
Ambient Temperature	-10℃～+55℃
Ingress Protection Rating	IP33 with cover IP22 without cover
Relative Humidity	≤95%, non condensing
Material of Enclosure	ABS
Dimension	ф100mm×39mm
Mounting Hole Spacing	45mm~75mm
Weight	About 100g

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