

DC-M9504 Base Mount Isolator

Features

Isolation of short circuit, automatic restore when short circuit is cleared.

Standards: UL864

NFPA [70,72]

Description

In fire alarm system, such condition often occurs that partial short circuit of loop affects the whole system. DC-M9504 Base Mount Isolator can isolate the shorted circuit from the whole system and light the yellow LED to ensure normal operation of other parts and locate the part in fault. After the fault is cleared, the part of the loop will be re-included into the system.

The isolator is applicable to Class A loop wiring.

Connection and Wiring

Terminals on the isolator are shown in Fig. 1.

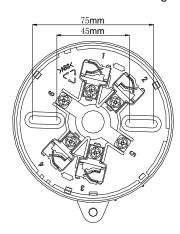


Fig. 1

- 1, 3: Loop output cable, 1 is positive and 3 is negative. 2, 4:Connecting with remote indicator output (used when connecting to the detector with remote indicator
- 5, 6: Loop input cable, 5 is negative and 6 is positive.

Recommended Cabling

17AWG~14AWG (maximum 14AWG) fire cable, subject to local codes.

Installation

The mounting of DC-M9504 isolator is shown in Fig. 2.



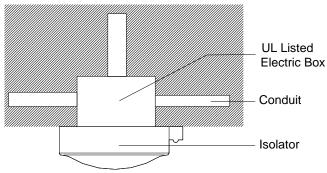


Fig. 2

Application

Electric connection of the isolator base and the detector is shown in Fig. 3. Loop input and output can be reversed.

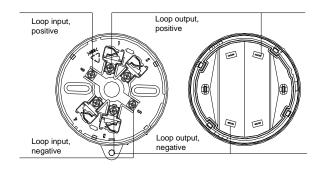


Fig. 3

Application of the isolator in Class A loop is shown in Fig.4.

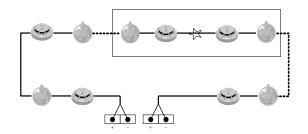


Fig. 4

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Appendix

The table hereafter indicates the maximum number of isolators versus maximum length of SLC loop wire of the UL Listed GST-M200 control unit.

For maximum loop current = 70 mA:

Isolator Quantity	2	50	70	100	128
Max length of 17 AWG loop wire(ft)	4000	3200	2900	2400	2000

If 14AWG wire is used, max 128 isolators can be connected within the loop of 4000 ft.

For maximum loop current = 200 mA:

Isolator Quantity	2
Max length of 17 AWG loop wire(ft)	1310

Limited Warranty

GST warrants that the product will be free from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

Specification

Maximum Operating	28VDC		
Voltage (V _{MAX})			
Operating Voltage	24V		
(V _{NOM})			
Minimum Operating	16V		
Voltage (V _{MIN})			
* Maximum Open	11V		
Voltage (V _{SO MAX})			
* Minimum Open	8V		
Voltage(V _{SO MIN})			
* Maximum Close	4V		
Voltage(V _{SC MAX})			
* Minimum Close	1.4V		
Voltage (V _{SC MIN})			
* Maximum Continuous	1A		
Current(I _{C MAX})			
* Maximum Transient	5A		
Output Current(I _{S MAX})			
* Maximum Leakage	7.5mA		
Current(I _{L MAX})			
* Max closed	0.15Ω		
impedance (Z _{C MAX})			
* Ingress Protection	IP33 with cover		
Rating	IP22 without cover		
Standby Current:	≤0.15mA		
Action Current:	≤2mA		
Action LED	Yellow. It flashes in standby		
	state, and lights steady in		
	action.		
Capacity	Maximum 70 devices		
	between two isolators		
Devices quantity	≤128		
connected to each loop			
Ambient Temperature	0°C∼+49°C		
Relative Humidity	≤93%, non condensing		
Material and Color of	Flame –retardant ABS		
Enclosure	(PA-765A), white.		
Dimension	ф100mm×39mm		
Mounting Hole Spacing	45mm~75mm		
Weight	About 100g		
	3		

The items that are marked with asterisk {*} are EN 54-17 and Ingress Protection (IP) ratings. They have not been evaluated by UL and are not for applications in North America.

This Data Sheet is subject to change without notice. Please contact GST for more information or questions.

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