

# DC-9503E Loop Isolator



## Description

In fire alarm system, such condition often occurs that partial short circuit of loop affects the whole system. DC-9503E Loop Isolator can isolate the shorted circuit from the whole system to ensure normal operation of other devices and locate the devices in fault. After the short circuit fault is cleared, those devices will be re-introduced into the system. DC-9503E is suitable for Class A and Class B wiring.

## Features and Benefits

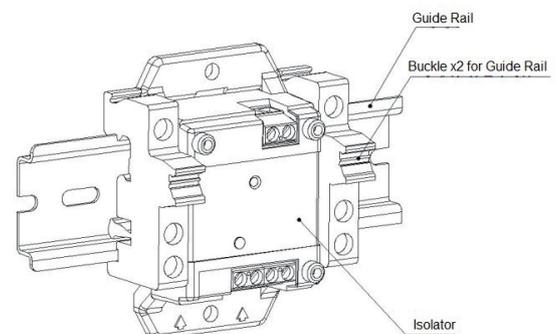
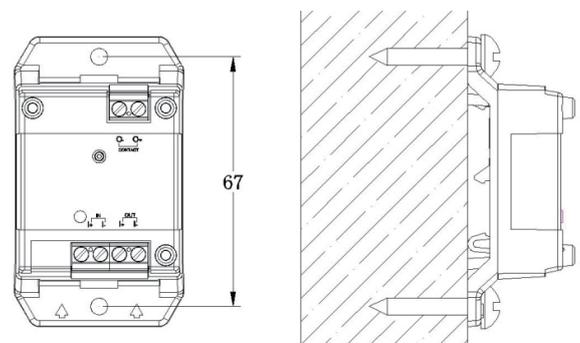
- Isolation of short circuit, automatic restore when short circuit is cleared.
- Support Class A or Class B wiring
- Rail mount or surface mount

## Certificates and Compliance

- Standards: EN 54-17:2005
- Certifications: LPCB CE
- WEEE & RoHS Compliant

## Installation

The installation points of the module are shown below, Wall-mount and Rail-mount. DIN-35mm rail is applicable.



## Terminals and Recommended Cabling

(I+, I-) IN: Loop connection input, I+ is positive and I- is negative

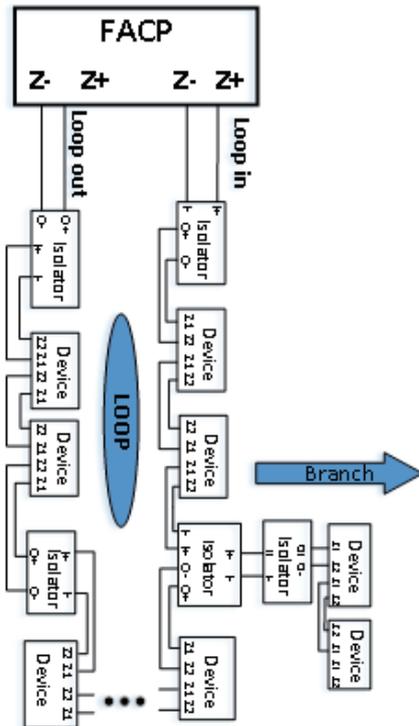
O+, O-: Loop connection output, O+ is positive and O- is negative.

(I+, I-) OUT: Loop branch connection output, I+ is positive and I- is negative.

Recommended Cabling: Minimum 1.0mm<sup>2</sup>, Maximum 2.5 mm<sup>2</sup> twisted pair cable, and subject to local codes.

## Application

System connection is shown as below. Note: Terminals of the isolator have polarities.



## Order Information and Compatible Products

|                  |  |
|------------------|--|
| Part No.         | DC-9503E   |
| Device Name      | Loop Isolator  |
| Product Code     | 10105102   |
| Compatible Panel | GST-IFP8 Intelligent Fire Panel<br>GST-200N Intelligent Fire Panel |

## Technical Specification

|  |  |
|--|--|
| Operating Voltage                                      | Loop: 24VDC (16V - 28V) Power Limited              |
| Standby Current  | ≤ 0.15mA   |
| Action Current   | ≤ 1.5mA  |
| Capacity   | Maximum 70 devices                                 |
| Indicator  | Yellow, flashes in standby state, steady in fault. |
| Wiring   | Two wire   |
| Maximum Line Voltage (V <sub>MAX</sub> )               | 28V  |
| Minimum Line Voltage (V <sub>MIN</sub> )               | 16V  |
| Maximum Continuous Current (I <sub>C MAX</sub> )       | 1A   |
| Maximum Transient Output Current (I <sub>S MAX</sub> ) | 5A   |
| Maximum Open Voltage (V <sub>SO MAX</sub> )            | 11V  |
| Minimum Open Voltage (V <sub>SO MIN</sub> )            | 8V   |
| Maximum Close Voltage (V <sub>SC MAX</sub> )           | 4V   |
| Minimum Close Current (V <sub>SC MIN</sub> )           | 1.4V   |
| Maximum Leakage Current (I <sub>L MAX</sub> )          | 7.5mA  |
| Max closed impedance (Z <sub>C MAX</sub> )             | 0.15Ω  |
| Operating Temperature                                  | -10°C - +55°C                                      |
| Relative Humidity                                      | ≤ 95%, non-condensing                              |
| Ingress Protection Rating                              | IP30   |
| Material and Color of Enclosure                        | ABS, white (RAL9016)                               |
| Compatible DIN-Rail                                    | 35mm DIN-Rails                                     |
| Dimension (L×W×H)                                      | 78mm×45.3mm×28.5mm                                 |
| Weight   | About 41.4g  |

## Accessories and Tools



Part No.: GST-MBX22  
Device name: Module Box  
Product No.: 30208656



Part No.: GST-MBX29  
Device name: Module Box  
Product No.: 30208657



Part No.: D-93CT1  
Device name: Din-rail Module Transparent Cover 1U  
Product No.: 20103182