

# 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

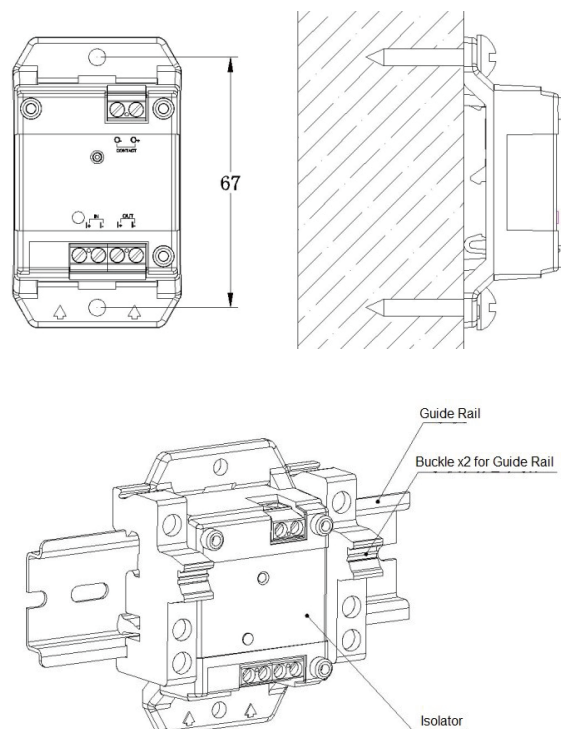
- Isolation of short circuit, automatic restore when short circuit is cleared.
- Support Class A or Class B wiring
- Rail mount or surface mount

## 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.



**IMPORTANT:** This publication is a generic version in which product information is shown for informational purposes only and does not constitute a specific commitment or guarantee. We are constantly pursuing the improvement of product technology to improve product performance, for which we reserve the right to adjust the configuration and technical information of the related products without notice. In addition, the description of system performance in this publication applies only to the usual situation. As a result, there may be a variety of unpredictable special circumstances in the real world, so the realization of the relevant product performance will depend on the professional investigation and analysis and the design plan. Please contact us and we will be happy to provide you with professional advice.

## Terminals and Recommended Cabling

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

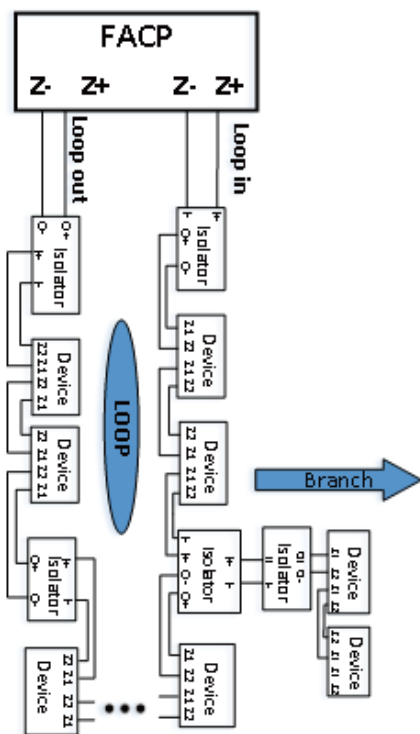
O+, O-: Loop connection output, O+ is positive and O- is negative.

(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 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