

# C-M9503 Loop Isolator



SIGNALING



## Description

In a loop type fire alarm system, it often occurs that partial short circuit of loop affects the whole system. C-M9503 Loop Isolator can isolate the shorted circuit from the complete loop to ensure normal operation of other parts and locate the isolated part.

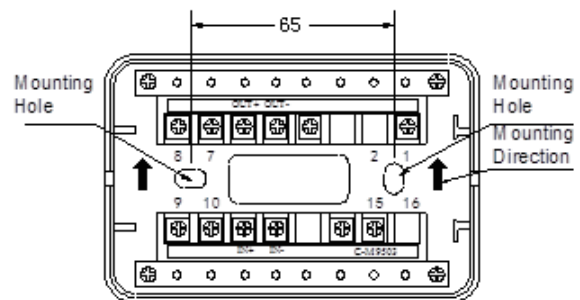
The isolator is applicable to Class A loop wiring.

## 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.
- Plug-in structure.

## Terminals and Installation Holes

Below figure shows terminals on the base of isolator.



IN+, IN-: Input cable from previous device, IN+ is positive, and IN- is negative.

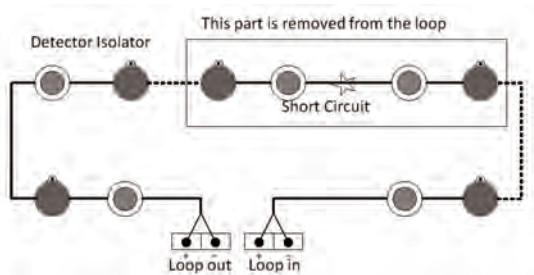
OUT+, OUT-: Output cable to next device. OUT+ is positive, and OUT- is negative.

### Recommended Cabling

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

## Application

The isolator is simply plugged onto the base after corresponding terminals are connected.  
 To ensure the operation of isolator, maximum 70 devices can be connected between each 2 isolators.  
 Below figures show the loop schematic.  
 Class A:



## Technical Specification

Operating Voltage	24VDC
Standby Current	≤150uA
Capacity	Maximum 70 devices between every two isolators Maximum 128 isolators per loop (according to loop cable size and length)
Indicator	Yellow, flashes when polling, illuminates in action.
Ingress Protection Rating	IP40
Operating Temperature	0°C ~ +49°C
Relative Humidity	≤93%, non-condensing
Material of Enclosure	Flame-retardant ABS (PA-765A), white
Dimension	120mm x 80mm x 39mm (with base)
Weight	About 175g (with base)

## Certificates and Compliance

- Standards: UL864 / MFPA [72,70]
- Listed by UL
- WEEE & RoHS Compliant

## Ordering Information and Compatible Products

Part No.	C-M9503
Device Name	Loop Isolator
Product No.	10105136
Compatible Panel	GST-M200, GST-IFP4M Intelligent Fire Panel
Compatible Detectors	I series intelligent detectors DI series digital detectors