



Isolator Module



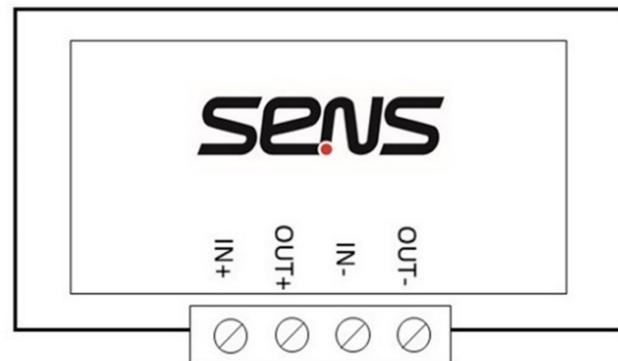
I1-AIS-300

Introduction

The addressable fire alarm isolator module I1-AIS-300 is used to isolate different parts of the circuit in the event of a short circuit in the loops of the addressable control panel. The element can isolate various loop elements from each other by being placed between them.

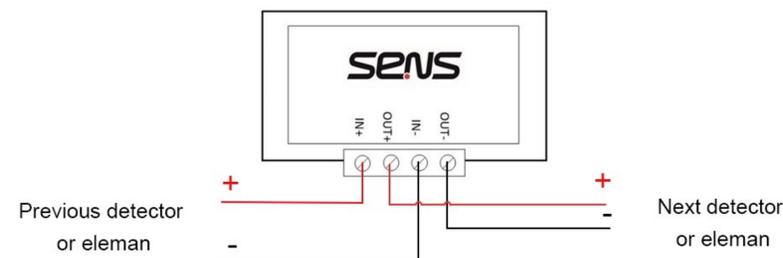
Installation and Wiring

The input module terminals are shown in the image below:



- ◆ Choose a suitable place for installing the isolator module.
- ◆ Use the two screws included in the product packaging to install the module on the wall.

- ◆ Connect the loop wires to the isolator module terminals according to their polarity.
- ◆ Considering that in a system without isolators, the entire system's operation will be disrupted in the event of a short circuit in an element, it is recommended in fire alarm systems to initially install an isolator module at the beginning and end of the loop, as well as after every 30 elements. This way, in case of a short circuit in an element, at least the minimum number of elements (30 pieces) will be disconnected from the loop, allowing the rest of the system components to continue functioning.
- ◆ For the installation of addressable systems, it's suggested to first install all the elements without considering the isolator modules, perform testing, and only after confirming the proper operation of the system, proceed to install the isolator modules.



Testing

- ◆ Connect all addressable loop elements and ensure their proper functioning.
- ◆ Connect the isolator modules at the beginning and end of the loop, as well as after every 30 elements.
- ◆ Short-circuit one of the elements. Verify that only the elements between two isolator modules are affected, while the rest of the elements have their normal function. By removing the short circuit, the system will back to its normal operation.

Warranty

Make sure this device is only used with a compatible control panel and no destructive operations are performed on it otherwise, it will not be covered by the warranty. Products must be regularly inspected, serviced, and maintained to ensure proper functionality.

Troubleshooting

Troubleshooting and repairs of the isolator module must be done by the after-sales service department of SENS Company or by the authorized representative recommended by the company.

Technical Specifications

Design standard	EN 54-17
Operating voltage	27V
Maximum stand-by consumption	120µA @ 27V
Operating temperature	-10 to 70 °C (Type B)
Humidity	95% (without condensation)
Maximum line voltage	28V
Minimum line voltage	15V
$V_{SO_{max}}$	6V
$V_{SO_{min}}$	2V
$V_{Sc_{max}}$	6V
$V_{Sc_{min}}$	2V
$I_{C_{max}}$	400mA
$I_{S_{max}}$	600mA
$I_{L_{max}}$	8mA
$Z_{C_{max}}$	0/5 Ω
Dimensions	25×55×95 mm
Weight	45gr

Addressable system loop diagram

