

# DHI-HY-1431

## Isolator Module



- Convenient wiring: Two-wire, polarity-free
- Reliable communication: Built-in microprocessor, stable performance
- Ultra-low power consumption: Ultra-low monitoring current and alarm current
- Simple installation: With a plug-in structure, easy to install and construct

### System Overview

DHI-HY-1431 Isolator Module is a mated product of the Addressable Fire Alarm Control Panel, locating at intervals on the loop. When a short circuit fault occurs at a place at the output end of the short circuit isolator in the bus circuit, the isolator module will cut off all equipment connected to the output end of it. After elimination of the short circuit fault, the isolator module can automatically connect the isolated loop section to restore power and data, help confirm the location suffering a short circuit fault. It ensures that in case of a short circuit, only the section between the isolators will be affected. The maximum number of equipment between isolators is 32. Isolator Module is recommended to be installed in electrical wells or in modular boxes in fire compartments.

### Functions

#### Short-circuit Protection

When a short circuit fault occurs at a place at the output end of the short circuit isolator in the bus circuit, the isolator module will cut off all equipment connected to the output end of it, thus ensuring the buses operate normally.

### Scene

It is suitable for the module box of the electric well or fire compartment.

### Technical Specification

#### Electrical

|                       |  |
|-----------------------|--|
| Working Voltage       | 24V DC   |
| Current               | Monitoring current: $\leq 150\mu\text{A}$<br>Alarm current: $\leq 8\text{mA}$  |
| Short Circuit Current | 450mA  |
| Indicator             | Red LED flashes once every 6 seconds during polling, flashes once every 2 seconds during malfunctioned, and remains lit during short circuit |

#### Communication Wiring

|                        |                         |
|------------------------|-------------------------|
| Wiring                 | Two-wire, polarity-free |
| Communication Distance | $\leq 1500\text{ m}$    |

#### Environment

|                       |  |
|-----------------------|--|
| Operating Temperature | $-10^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ ( $+14^{\circ}\text{F}$ to $+131^{\circ}\text{F}$ ) |
| Storage Temperature   | $-20^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $+149^{\circ}\text{F}$ )  |
| Operating Humidity    | $\leq 95\% \text{ RH}$ (no condensation)   |

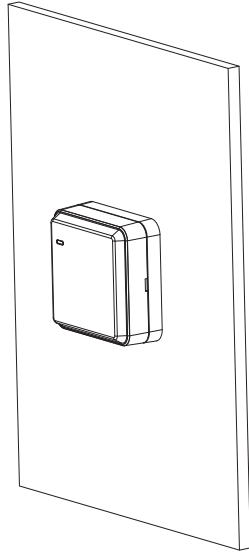
#### Construction

|                        |   |
|------------------------|---|
| Color                  | White   |
| Dimensions (with base) | 90 mm $\times$ 90 mm $\times$ 37 mm (3.54" $\times$ 3.54" $\times$ 1.46") |
| Weight (with base)     | 107 g (0.24 lb)   |

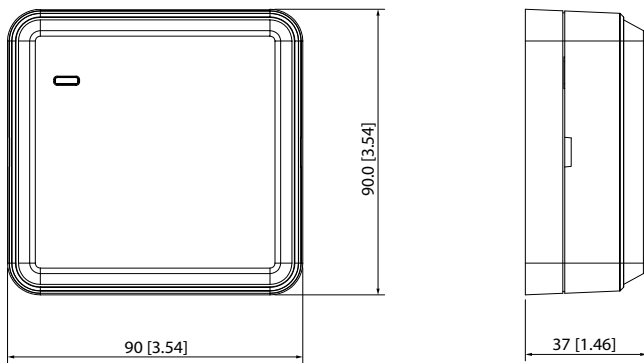
#### General

|                     |         |
|---------------------|---------|
| Compliance Standard | EN54-17 |
|---------------------|---------|

### Installation



### Dimensions (mm/inch)



### Ordering Information

| Type            | Part Number  | Description          |
|-----------------|--------------|----------------------|
| Isolator Module | DHI-HY-1431  | Isolator Module      |
| Accessories     | DHI-HY-MKDZ3 | Isolator Module Base |