

# DHI-HY-1431R

## Looped Bus 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
- Address Encoding: Electrical encoder writes address information to position short circuit precisely
- Simple installation: With a plug-in structure, easy to install and construct
- Designed in accordance with EN54-17 standard

### System Overview

DHI-HY-1431R Looped Bus Isolator Module is indispensable to loop circuit. characterized by two-wire technology, this module protects the bus communication circuit.

### Functions

#### Compact solution

With the assistance of a loop bus switch module and wiring, this system can transition from a radial to a loop circuit without replacing control panel

#### Convenient wiring

Polarity-free with automatic identification

#### Simple configuration

Shares the same configuration logic as the radial circuit without any special requirements

### Scene

It is suitable for scenarios requiring loop circuit.

### Technical Specification

#### Electrical

Working Voltage	DC16V~DC28V
Current	Monitoring current: $\leq 50\mu\text{A}$ Alarm current: $\leq 45\text{mA}$
Indicator	Isolate: Yellow LED is constantly off when works normally 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)

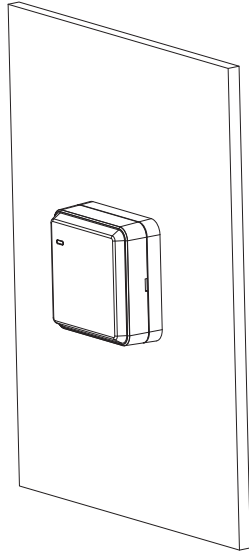
#### Construction

Color	White
Dimensions (with base)	90 mm $\times$ 90 mm $\times$ 37 mm (3.54" $\times$ 3.54" $\times$ 1.46")
Weight (with base)	136.1g (0.3lb)

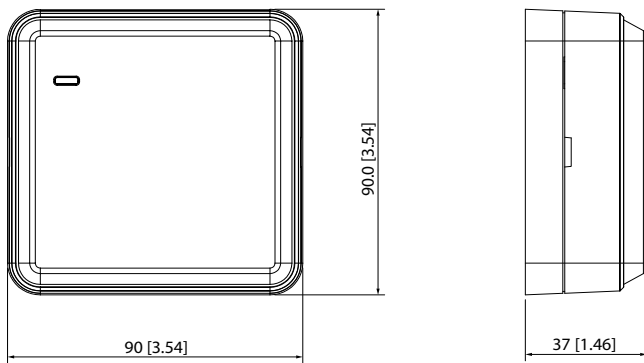
#### General

Compliance Standard	EN54-17
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### Installation



### Dimensions (mm/inch)



### Ordering Information

Type	Model	Description
Looped Bus Isolator Module	DHI-HY-1431R	Looped Bus Isolator Module