

# VI-6777 Digital Isolate Interface

Installation and Operation Manual V1.07

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**VSAIL**

## Features

- ✧ Easy Installation
- ✧ Loop power supply
- ✧ Both side isolate control
- ✧ Designed to comply with EN 54-17



## Description

VI-6777 Digital Isolate Interface monitors the short circuit fault at the loop detection zone ,It has both side isolate function ,if detects the short circuit on loop it will isolate that side to ensure loop communication signal will not be affected or interrupt by short-circuit fault. When the short circuit fault is removed, the isolate interface will automatically restore loop.

## Technical data

Operating Voltage:	18-28V(Modulated-pulse)
Standby Current:	≤1mA
Isolate holding current	≤10mA
Action condition	Isolate input/output side short circuit or loop voltage ≤7.5V
Wiring	Two-wire (non-polarized)
Temperature range:	-10℃~50℃
Humidity:	≤95%RH, (40±2℃) No condensation
Isolate Indication:	<b>Active A or Active B</b> LED illuminates steadily.
IP Rating:	32
Installation Base	VB-6618

**Note:** The VI-6777 Isolate interface is working with VSAIL Digital Protocol

## Installation

- ✧ **Dimensions: Showing on Fig.1**

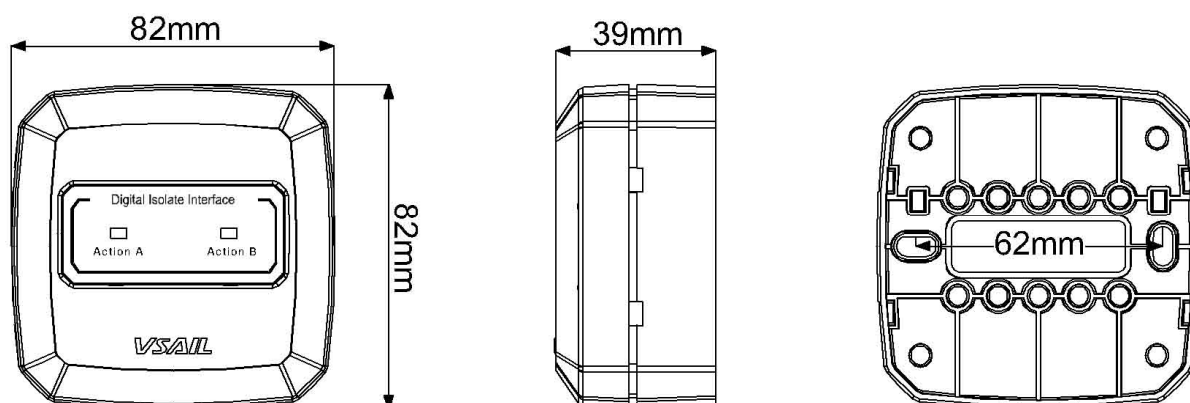


Fig.1

## ✧ Mounting:

**Warning: Please disconnect the loop power in order to avoid control panel broken by short circuit when mounting Base.**

1. Make sure the mounting direction mark "↑" on Base is upwards .
2. Install the base stable by using two screws, and connect all cables in accordance with wiring details.
3. Install the Isolate interface body on to base directly.
4. Isolate interface Mounting showing in Fig.2

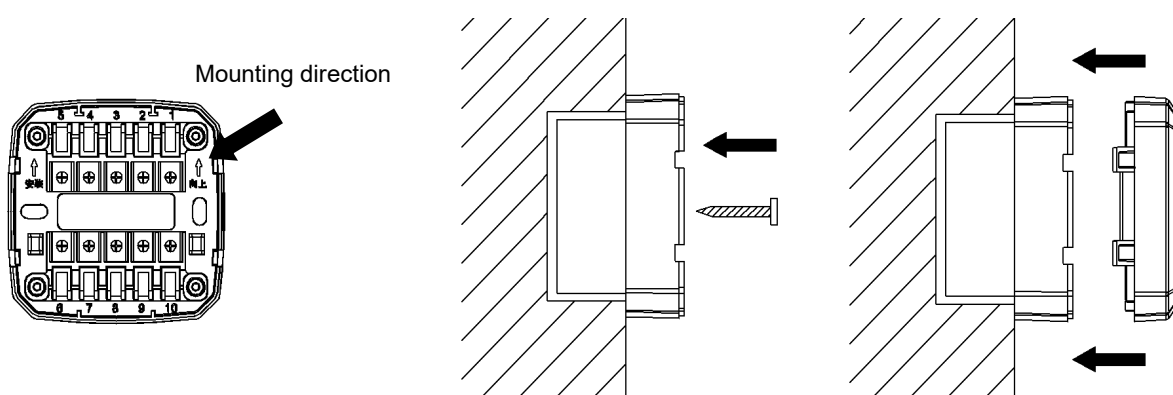


Fig.2

## Terminal Connection

1. **1,3:** connecting with Detection loop L+;L-(Input), A side isolate.
2. **8,10:** connecting with Detection loop L+;L- (Output), B side isolate.
3. Loop wiring is shown in Fig.3

### Warning

- ✧ Maximum 32 devices connect with one side of Isolate Interface.
- ✧ Please make sure 1,10 connect with L+;3,8 connect With L-. It recommends using different colors to distinguish the line. Otherwise it will cause the loop wiring error.

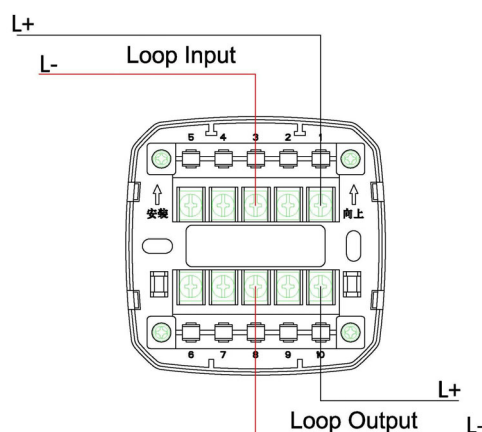


Fig.3

## Wiring Guide

Wiring guide in Fig.4.

- ✧ If short circuit at "Zone 1", "Active B" LED of *Isolate Interface A* and "Active A" LED of *Isolate Interface B* will emitting, "Detection Zone 1" will be isolated.
- ✧ If "Zone 3" had short circuit fault, the *Isolate interface C* will start to isolate, "Active B" of *Isolate Interface C* will emitting. And A side of *Isolate Interface D* also start to isolate.

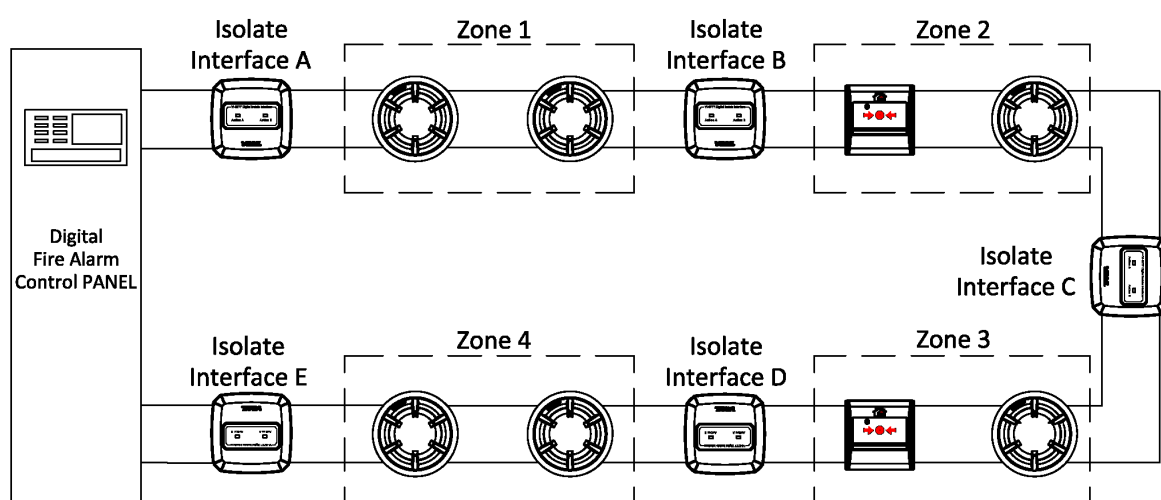


Fig.4

## Testing

**Warning:** Power is switched on after all devices are installed completely.

- ✧ **Isolate test:** The LED indicator "Active A" or "Active B" will emitting when apply the short circuit to corresponding side of isolate Interface.
- ✧ **Reset:** Remove the short circuit fault, the isolate interface will go back to normal.

## Fault Finding

No response	Wiring fault
Isolate side reverse	Reversed wiring

## Cautions

1. Dust cover on Isolate Interface shouldn't be removed between installation and acceptance test to avoid

damage.

2. Fire alarm test requirement as specified in applicable codes, We suggest to test every 12 month.

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## **Limited Warranty**

VSAIL warrants that the product will be free of charge for repairing or replacing from defects in design, materials and workmanship during the warranty period. This warranty doesn't cover any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.