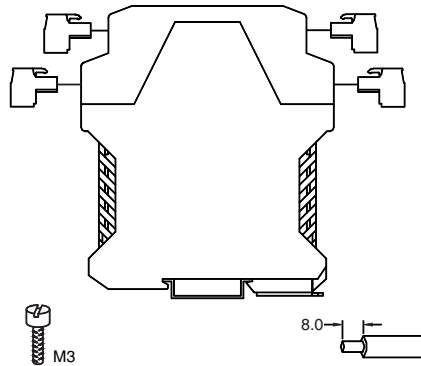


## ■ Connections

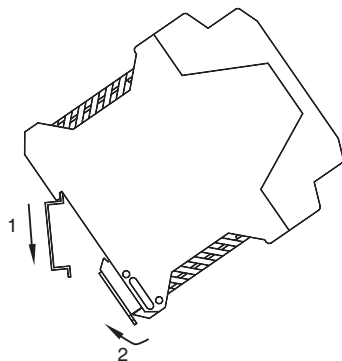
- (1) The isolators adopt knock-down terminals.
- (2) The wires are single or multiple cables with a cross-section of 0.5 mm<sup>2</sup>~2.5mm<sup>2</sup>
- (3) A length of 8mm bared wire is locked by the M3 bolt. As shown in figure.



## ■ Installation

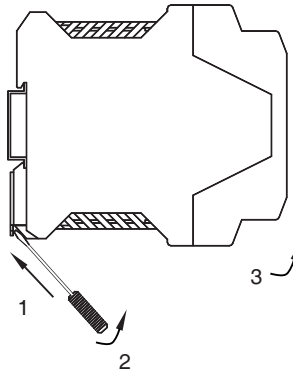
Mount the module on a 35mm DIN rail

- (1) Make the upside of the isolator to the rail;
- (2) Push the downside of the isolator towards the rail.



## ■ Disassembly

- (1) Use a screwdriver (edge length≤6mm ) insert the metal lock which at the downside of the isolator;
- (2) Push the screwdriver upwards, and pull the metal lock downwards;
- (3) Take out the isolator from the rail.



## ■ Maintenance

- (1) Every product has been tested strictly before delivery. If users find any abnormality, please contact the nearest agent or our company.
- (2) In 5 years from delivery date, if the product performs abnormally under normal use conditions, we will repair it for free.

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## Isolator

CZ3076  
CZ3079



### ⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear, you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the barrier otherwise it will induce malfunction.

## ■ Summarize

Thermal resistance type isolator, the two wire or three-wire system resistance signal is converted into 0/4~20mA current signal isolation or 0/1~ 5V voltage signal output. It is intelligent, can through the computer scope of heat resistance index number, range and configuration.This product should be supplied power independently. Input circuit, output circuit and power supply are each galvanically isolated.

## ■ Specification

**Number of channel:** 1/2(CZ3076)  
2(CZ3079)

**Supply voltage:** 20~35V DC

**Current consumption:** (at 24V DC supply, 20mA signal output)  $\leq 55\text{mA}$

**Input:** The input signal and range scope list

Signal type	Signal Range	Min. span	Accuracy
Pt100	-200℃~+850℃	20℃	0.2℃/0.1%
Cu50	-50℃~+150℃	20℃	0.2℃/0.1%
Cu100	-50℃~+150℃	20℃	0.2℃/0.1%

Note: 1.% is related to the adjusted measurement range(the value to be applied is the greater).

2.Three-wire heating resistor type, allowing a maximum conductor resistance 50Ω.

**Output:** Current: 0/4~20mA; Load resistance:  $R_L \leq 300\Omega$

Voltage: 0/1~5V; Load resistance:  $R_L \geq 20\text{k}\Omega$

(Note: output current: load resistance:  $R_L \leq 550\Omega$ , Current consumption:  $\leq 50\text{mA}$ , need be customized)

**Alarm indication:**

Under lower limit, LED L is flashing, output current is around 3.8mA

Exceed upper limit, LED H is flashing, output current is around 20.8mA

Break line, both L and H are flashing, output current is around 20.8mA

Short circuit, both L and H are flashing, output current is around 3mA

(Note: disconnection alarm current  $< 4\text{mA}$  or other special requirements, need to be customized)

**Temperature drift:** 0.01%F.S./℃

**Response time:** Reach 90% of final value in 1s

**Power supply protection:**

Protect the barrier form reverse supply voltage destroy

**Electromagnetic compatibility:** According to GB/T 18268(IEC 61326-1)

**Dielectric strength:**

1500V AC; 1minute(among power supply, input and output )

**Insulation resistance:**

$\geq 100\text{M}\Omega$ ; 500V DC(among power supply, input, output and the shell)

**Weight:** Approx.150g

**Suitable is apparatus:** Pt100、Cu50、Cu100

## ■ Operation Conditions

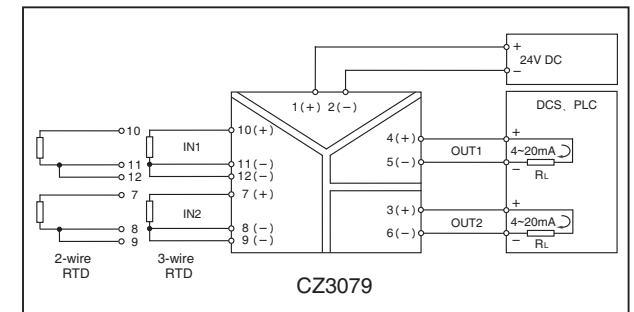
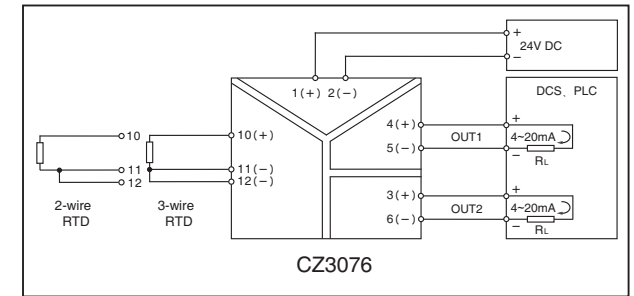
(1). The air should not contain any medium corrupting the coat of chrome, nickel and silver. Moreover, violent quiver and impact or any cause of electromagnetic induction (such as big current or spark, etc.) must be avoided when using.

(2). Operating temperature: -20℃~+60℃

(3). Storage temperature: -40℃~+80℃

(4). Relative humidity: 10%~90%

## ■ Application



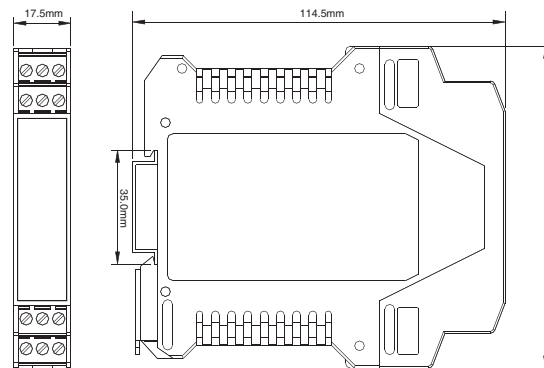
Note:

1. Three wire system input, as far as possible to ensure equal three wire resistance value.

2. terminals 11 and 12 must be connected when 2-wire RTD inputs.

## ■ Outline dimensions

114.5mm×99.0mm×17.5mm



## ■ Configuration software EasyTT

EasyTT software is temperature isolator CZ3000 series configuration software. Based on the Windows operating system, the software is easy to use for its friendly interface and the use of USB interface. The parameters such as the sensor type and range scope could be set in the software by users.

Version operating system: 2000 Windows and above

Hardware interface: USB interface

Special adapter: USB COM-MINI(special USB to RS-232 serial connection)

Note: if the customer wants to use Windows 7 operating system, please contact customer service!