■ Connections

(1) The isolators adopt knock-down terminals.

(2) The wires are single or multiple cables with cross-section of 0.5 mm^2~2.5mm^2.

(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.
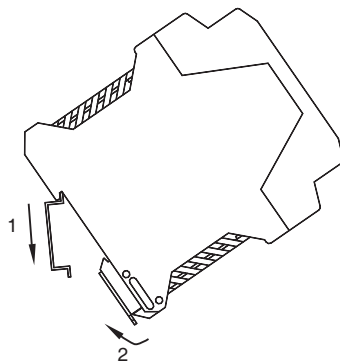
■ Maintenance

(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.

SHANGHAI CHENZHU INSTRUMENT CO.,LTD.

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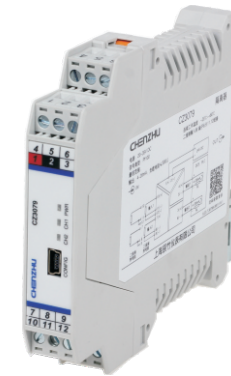
CHENZHU | User Manual

Isolator

CZ3076.R
CZ3079.R

Please read the instruction manual carefully before use the product, and please safekeeping.
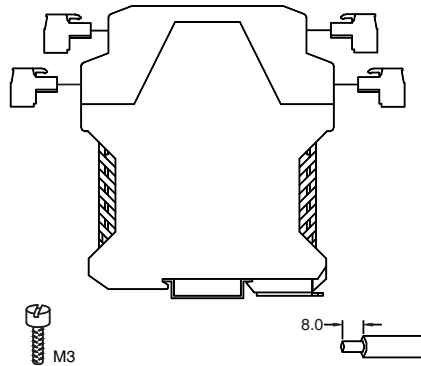
⚠ Caution

■ 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, please dial technic support hotline-400 881 0780;

■ Supply voltage is 24VDC, 220VAC is forbidden;

■ Users are not allowed to dismantle or repair the barrier otherwise it will induce malfunction.
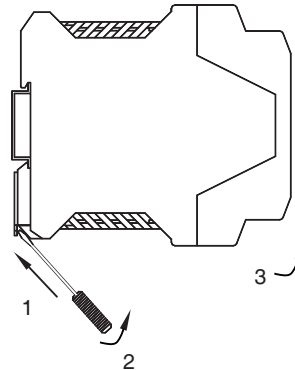
CZ.CZ3079.R.11(S)E-5.0/18.04

■ Summarize

Potentiometer input isolator, the two wire or three-wire system potentiometer signal is converted into 0/4~20mA current signal isolation or 0/1~ 5V voltage signal output. It is intelligent and could be configured with parameters such as the graduation of thermocouple and the scope of range through computer.This product should be supplied power independently. Input circuit, output circuit and power supply are each galvanically isolated.

■ Specification

Number of channels: 1/2(CZ3076.R)
　　　　　　　　　2(CZ3079.R)

Supply voltage: 20~35V DC

Current consumption: (at 24V DC supply, 20mA output)≤55mA

Input: signal : two wire or three-wire potentiometer
　　　　Range: 0~5kΩ

Output: Current: 0/4~20mA; Load resistance: R_L≤300Ω
　　　　Voltage: 0/1~5V;　　Load resistance: R_L≥20kΩ

(Note: output current: load resistance: R_L≤550Ω, Current consumption:≤50mA, need be customized)

Alarm indication:

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

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

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

(Note: breakage alarm current＜4mA or other special requirements, need to be customized)

Output accuracy: 5Ω/0.1%F.S

Temperature drift: 0.01%F.S./℃

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

Power supply protection:
Protect the product from reverse supply voltge destroy

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

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

Insulation resistance:
≥100MΩ; 500V DC(among power supply, input, output and the shell)

Weight: Approx.150g

Suitable IS apparatus: two wire or three-wire potentiometer

■ 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.
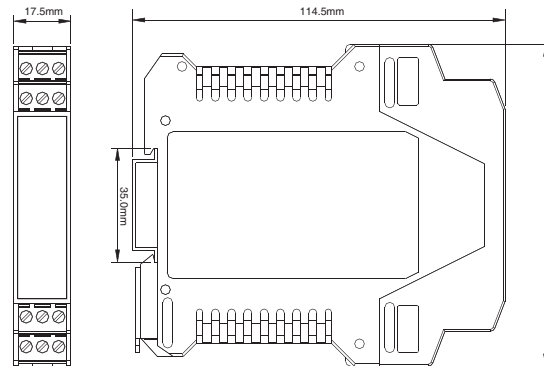
(2). Operating temperature: -20℃~+60℃

(3). Storage temperature: -40℃~+80℃

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

■ Dimensions

114.5mm×99.0mm×17.5mm

■ Application

CZ3076.R

CZ3079.R
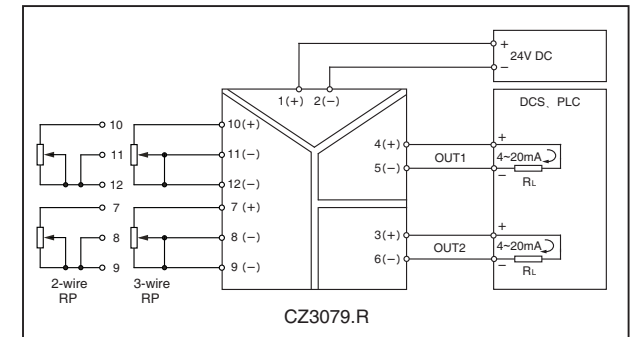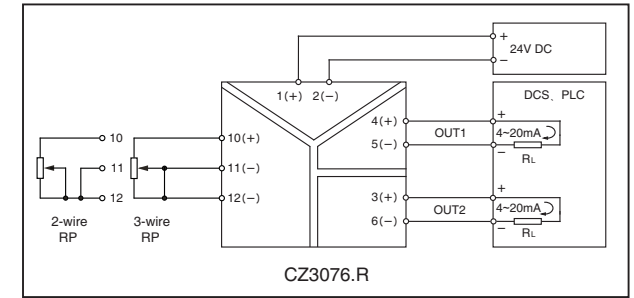
Note:

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

2.terminals 8, 9; 11, 12 must be connected when 2-wire RTD inputs.

■ Configuration software EasyConfig

EasyConfig is 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 by users the software.

Version of operating system: Windows XP and above version

Hardware interface: USB interface

Dedicated adapter: USBCOM-MINI(dedicated USB to RS-232 serial connection)