

## C Series Single Channel Millivolt Transmitter

### → Introductions

This millivolt transmitter converts the millivolt signals to current or voltage or 1:1 millivolt signals. The input, output, and power supply are galvanically isolated from each other. DIN rail power supply function can be selected in ordering. The main advantages of the isolator are fast response, low dissipation and temperature stability. It can be interfaced with all kinds of device, such as DCS, PLC and other systems.

### → Parameters

#### **Power supply:**

Connection type: Terminals (9+, 10-) or DIN rail connector

Rated voltage: 18 V DC ~ 60 V DC (Recommended voltage: 24 V DC)

**Input signal(1, 2):** millivolt

**Input resistance:** > 100 MΩ

#### **Output (5, 6; 7, 8):**

Current: 0(4) ~ 20 mA; 0 ~ 10 mA

Voltage: 0(1) ~ 5 V; 0 ~ 10 V

1:1 millivolt

#### **Load resistance:**

0(4) ~ 20 mA: ≤ 550 Ω; 0 ~ 10 mA: ≤ 1.1 kΩ

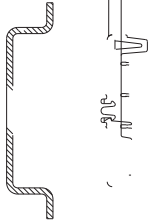
0(1) ~ 5 V: ≥ 1 MΩ; 0 ~ 10 V: ≥ 2 MΩ

1:1 millivolt: ≥ 100 kΩ

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### → Installation

- The apparatus can be installed on the DIN 35 mm standard rail which is corresponding to DIN IEC 60715. The must be snapped onto the rail, and never slanted or tipped to the side.
- Installation and disassembly steps are shown in following figures:



A. Snap the BUS socket on the DIN 35 rail, as figure A;

B. Snap metal lock onto mounting rail, then rotate the apparatus, as figure B, press down the apparatus onto mounting rail, make sure that the BUS connector pins of apparatus and BUS socket are in close contact.

C. Pry the metal lock off the rail with screwdriver as arrow shown, pull downward the springs, and rotate the apparatus.

D. Remove the apparatus as arrow shows.

- As far as possible to mount it vertically, In order to dissipation the heat of the apparatus

Vertically installation

### → Light indication

- **PWR:** Power indicator light shows green, it means work normally.
- **ALM:** Input signal state indicator (red), it is off during normal operation, remain bright when input over-range. It is glitter when input line breakage.

### → Attention

- The devices degree of protection is IP 20 and must be protected from undesirable ambient conditions

(waterproofing, small foreign objects). It is suitable for installation in the control room or high density field cabinet, DIN 35 mm installation is convenient for installation and displacement.

- The devices were designed for use in pollution degree 2 and overvoltage category III as per IEC/EN 60664-1. If used in areas with higher pollution degree, the devices need to be protected accordingly.
- Installation position shall not be affected by strong mechanical vibration; impact and electromagnetic induction from signal terminal and power supply, should conformity with the requirements on electromagnetic interference resistance of products in Class 3 industrial field atmosphere stipulated in IEC 61000-4; the atmosphere shall be free from gases that are corrosive to metal and plastic components.
- The apparatus must be installed, connected and adjusted by qualified personnel in non-hazardous area according with the instruction manual.
- The operator must strictly comply with the relevant local safety standards and guidelines.

### → Supplementary instructions

- Our company reserves the right to change the product information without prior notification to the user. If the contents of the description are different from website or sample, this description shall prevail.