C Series Double Channel TC Isolated Safety Barrier

➔ Introductions

This isolated safety barrier converts the thermocouple signals from a hazardous area into current or voltage signals to a safe area. DIN rail power supply function can be selected in ordering.

The input, output, and power supply are galvanically isolated from each other. Calibrate the apparatus or modify parameters by using a handheld programmer.

➔ Parameters

Explosive-proof grade: [Ex ia Ga] IIC; [Ex ia Da] IIIC

Power supply:

Connection type: Terminals (4+, 5-) or DIN rail connector

Rated voltage: 8V DC ~ 60V DC (Recommended: 24V DC)

Input (1, 2, 3; 4, 5, 6): TC

The input signal needs to be determined when ordering and can also be programmed. Other signal types is required special customization, please see the productlabel for details.

Output (7, 8, 9; 1

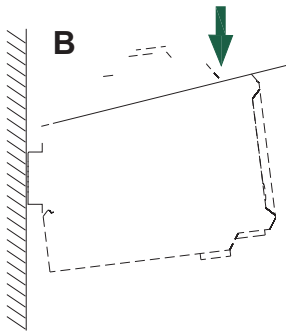
➔ BUS Specification

BUS	Electrical Characteristics
Current	Max. 8 A
Voltage (UL/IEC)	.6 kV
Operation temperature	−40 ℃ ~ + 05 ℃

➔ Installation

- The apparatus can be installed on the DIN 35 mm standard rail which is corresponding to DIN IEC 607 5. 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 lock onto mounting rail, then rotate the device, as figure B, press down the device onto mounting rail, make sure that the BUS connector pins of device and BUS socket are in close contact.

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

D. Remove the device as arrow shows.

- Low heat dissipation allows vertical or horizontal mounting without spacing. Normal operation is guaranteed over the full temperature range of the system in any mounting direction and without restriction.

Vertically installation

Horizontally installation

➔ Light indication

- **PWR**: Power indicator light shows green, it means work normally.
- **CH1, CH2**: 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

- Isolated Safety Barriers 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- . 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 6 000-4; the atmosphere shall be free from gases that are corrosive to metal and plastic components.
- The apparatus may only be operated, maintained and decommissioned by competent according with the instruction manual, and it must be installed, connected and adjusted in non-hazardous area.
- 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.