Current input, current output

C Series
Dual Channel
Current Input Isolated Safety Barrier

➔ Introductions

This isolated safety barrier detects loop current and
it from a hazardous
safe area, and also
hazardous area. D
selected in order
communication signals.

The input, output, and power supply are galvanically isolated from each other. The main advantages of the isolated safety barrier are fast response, low dissipation and temperature stability.

➔ Parameters

Explosive-proof grade: [Ex ia Ga] IIC

Power supply:

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

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

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

Input signal: 0(4) ~ 20 mA, 0 ~ 0 mA; (Please see the product label for details)

Input resistance: approx. 75 Ω

Over current/voltage protection

Available voltage:

open-circuit voltage ≤ 26 V, voltage: ≥ 5.5 V at 20 mA

Output (7, 8, 9; 10, 11, 12):

Sink mode: 4 ~ 20 mA

Output current: 0(4) ~ 20 mA; 0 ~ 0 mA

Output voltage: 0( ) ~ 5 V; 0 ~ 0 V

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Load res

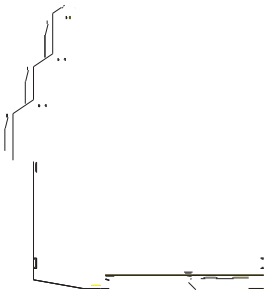
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➔ Output mode of input

- When the input line breakage, the output value is 0 mA.
- When the input upscale, the output follows the input, the output value is limited to 32 mA.

➔ Dimension

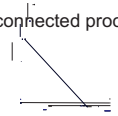
Width × Height × Depth: 7.8 mm × 0 mm × 7 mm



➔ Applications

This apparatus is used for transmitting signals between field devices and process control system. It can be used to connect field equipment which is installed in potentially explosive gas environment, and protect the intrinsically safe equipment in a hazardous area by limiting current and limiting voltage.

The apparatus can convert the current signals into current or voltage signals, and then transmit the output signal to the connected process control system.



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

D. Remove the safety barrier 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.

➔ 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 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.with rights