C Series
Single Channel
RTD Isolated Safety Barrier

➔ Introductions

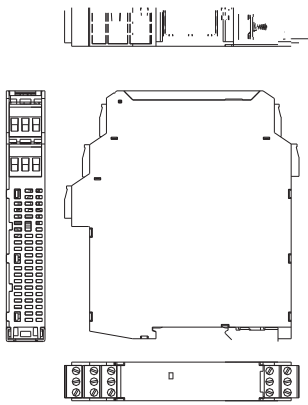
This isolated safety barrier converts the thermal resistance signals from a hazardous area into 1:1 resistance signals and

Output drive current	Accuracy
0.5 ~ 10 mA	± 0.1% F.S. or < 0.2 Ω (Choose the maximum value)

Nanjing New Power Electric Co., Ltd.

➔ Dimension

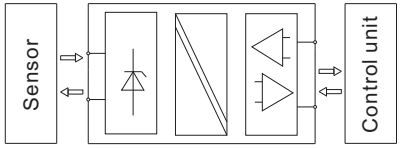
Width × Height × Depth: 17.8 mm × 110 mm × 117 mm



➔ 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 thermal resistance signals to 1:1 resistance signals and current/voltage signals, and then transmit the output signal to the connected process control system.



➔ BUS Specification

➔ 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 safety barrier, as figure B, press down the safety barrier onto mounting rail, make sure that the BUS connector pins of safety barrier 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 safety barrier.