C Series Single Channel Sink Output Isolated Safety Barrier

➔ Introductions

This isolated safety barrier detects loop current and converts it from a hazardous area into sink signal to a safe area, and also provides transmitters with power in the hazardous area. DIN rail power supply function can be selected in ordering. It allows transmission of HART 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 (9+, 10-) or D

Rated voltage: 18 V DC ~ 60 V DC (R

24 V DC)

Input :

Input signal: 0(4) ~ 20 mA

product label for detail

Input resistance: a

Over current/vo

Available vo

open-ci

Outp

≥ 1500 V AC (non-intrinsically s

Insulation resistance: ≥

Parameters certifi

Inspection Cent

Instrumenta

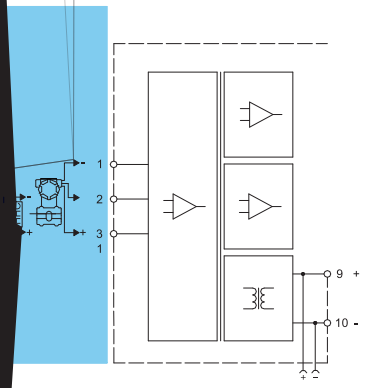
U_m: 250

Term

➔ Wiring diagram

Single input, single output

Single input, double output



andheld HART communicator (HHC) can not be used both the hazardous area and safe area at the same me.

andheld HART communicator used in a hazardous rea must be authorized by explosion-proof certification ody.

DIN rail power supply function is selectable at ordering.

r industrial Park, Luhe Economic Development Zone, Nanjing, China
Postcode: 211500

➔ Dimension

Width × Height × Depth: 12.8 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 current signals into current signals, and then transmit the output signal to the connected process control system.

➔ BUS Specification

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 60664-1. 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