NEWPWR®

C Series Single Channel Sink Output Isolated Safety Barrier



Nanjing New Power Electric Co., Ltd.

➔ Introductions

This isolated safety barrier dete
it from a hazardous area into sin
also provides transmitters with po
DIN rail power supply function can
allows transmission of HART comm
The input, output, and power supply
from each other. The main advantage
barrier are fast response, low dissip
stability.

➔ Parameters

Explosive-proof grade: [Ex ia Ga] IIC

Power supply:

Connection type: Terminals (9+, 0-) or DI

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

Input :

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

Input resistance: approx. 75 Ω

Over current/voltage protection

Available voltage:

open-circuit voltage ≤ 26 V, voltage: ≥ 6 V

Output:

Sink mode: 4 ~ 20 mA

Load resistance:

Sink mode: R_L ≤ [(U-3)/0.02] Ω; U: Loop

Max. output current: ≤32 mA

Transmission characteristics:

Accuracy: ± 0. % F.S. (25 ℃ ± 2 ℃)

Degree of stability: 0.03% F.S.

Repeatability: 0.02% F.S.

Min. controllable current: 0μA

Response time: ≤ 2 ms

Settling time: ≤ 20 ms

Temperature drift: < 30 ppm/℃

Electromagnetic compatibility: Accordance to IEC 6 326-3

**Dielectric strength (1 mA leakage current, 1 minute tes
time):**

≥ 3000 V AC (intrinsically safe side / non-intrin

➔ Dimension

Width × Height × Depth: 2.8 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 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- . 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