

→ Introductions

This isolated safety barrier detects loop current and converts it from a hazardous area into current or voltage signals to a safe area by isolation, and also provides transmitters with power in the hazardous area. It allows transmission of HART communication signals. DIN rail power supply function can be selected in ordering.

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

<b>Explosive-proof grade</b>	[Ex ia Ga] C
<b>Power supply</b>	
Connection type	Terminals (9+, 10-) or DIN rail connector
Rated voltage	18 V DC 60 V DC (Recommended voltage: 24 V DC)
<b>Input (1, 2, 3)</b>	
Input signal	0(4) ~ 20 mA, 0 ~ 10 mA
Input resistance	approx. 75
Available voltage	open-circuit voltage 26 V voltage: 16 V at 20 mA
overcurrent/voltage protection	yes
<b>Output (5, 6; 7, 8)</b>	
Output signal	DC current: 0(4) ~ 20 mA, 0 ~ 10 mA DC voltage: 0(1)~5 V, 0~10 V
Load resistance	0(4) ~ 20 mA: 550 0 ~ 10 mA: 1.1 k 0(1) ~ 5 V: 1 M 0 ~ 10 V: 2 M
Max. output current	32 mA
<b>Transmission characteristics</b>	
Accuracy	± 0.1%F.S(25 ±2 )
Min. controllable current	10 µA
Temperature drift	< 30 ppm/
Response time	2 ms
Settling time	20 ms
<b>Electromagnetic compatibility</b>	Accordance to IEC 61326-3-1

Dielectric strength (1 mA leakage current, 1 minute test time)	
3000 V AC	intrinsically safe side / non-intrinsically safe side
1500 V AC	non-intrinsically safe side / non-intrinsically safe side

1-channel C Series

Current Input Isolated Safety Barrier



Nanjing New Power Electric Co., Ltd.



