

RTD Isolated Safety Barrier

NPEXA-H211

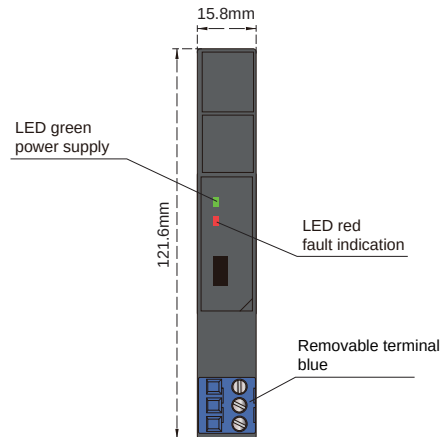
single input, double output

Input: RTD

Output: 4 ~ 20 mA



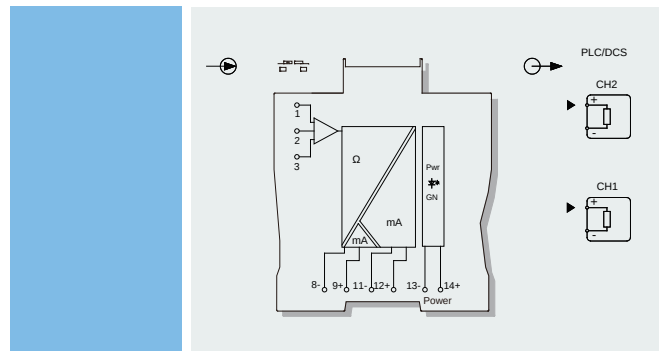
Temperature input safety barrier, it converts the thermal resistance signals from a hazardous area into current signals to a safe area by isolation. The input, output, and power supply are galvanically isolated from each other. A self-test feature is also available on this device. You can use PC or handheld programmer to modify parameters.



Technical data

Power supply:	18 V DC~32 V DC (Reverse power protection)
Power dissipation:	1.5 W (24V DC, double output)
Input signal:	RTD
Line resistance:	$\leq 20 \Omega$ per line (RTD)
Output signal:	4 ~ 20 mA
Load resistance:	$R_L \leq 500 \Omega$
Temperature drift:	0.01%F.S./°C
Response time:	$\leq 1s$
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 2500 V AC (intrinsically safe side / non-intrinsically safe side) ≥ 500 V AC (Power supply side / non-intrinsically safe side)
Insulation resistance:	≥ 100 M Ω (Input /Output/Power supply)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D)
Output states:	Default following mode, it can be configured as 4mA~20mA NE43 mode or fixed output mode.

Wiring diagram



Explosive-proof parameters

National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)

Explosive-proof grade: [Ex ia Ga] II C

Um 250 V

Certified parameters (Terminals 1, 2, 3)

Uo=7.3V, Io=27mA, Po=50mW

II C Co=12 μ F Lo=28mH

II B Co=151 μ F Lo=84mH

II A Co=700 μ F Lo=224mH

Model rules