

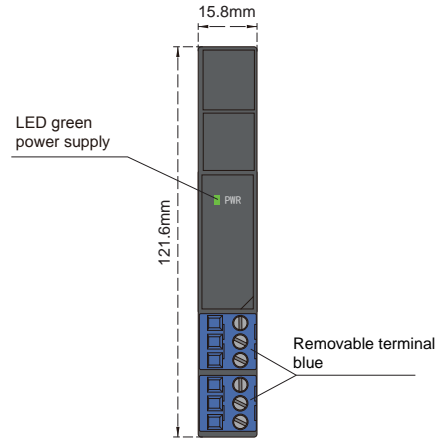
NPEXB-HM3D11 double input, double output

Input: 4 ~ 20 mA
Output: 4 ~ 20 mA

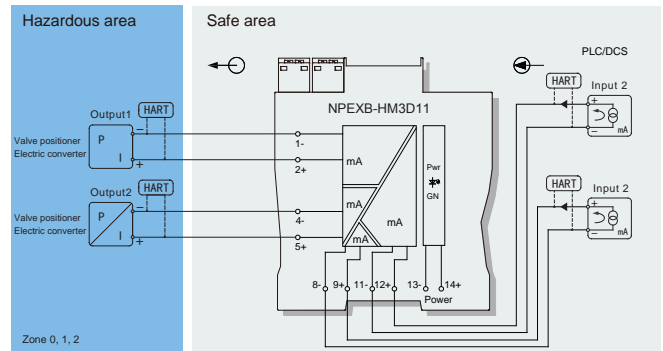
Accepts 4~20mA signal from safe area to drive executive mechanisms in hazardous area, It allows transmission of HART communication signals. The input, output, and power supply are galvanically isolated from each other.

Technical data

Power supply:	18 V DC~32 V DC (Reverse power protection)
Power dissipation:	< 2.0 W (24V DC, double output)
Input signal:	4 ~ 20mA, HART
Input voltage drop:	< 1.2V
Output signal:	4 ~ 20mA, HART
Load resistance:	$RL \leq 800\Omega$
Accuracy:	$\pm 0.1\%F.S.$
Temperature drift:	$0.005\%F.S./^{\circ}C$
Response time:	$\leq 2ms$
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)



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; 4, 5):

Uo=28V, Io=93mA, Po=651mW

II C : Co=0.08 μ F , Lo=4mH

II B : Co=0.6 μ F , Lo=12mH

II A : Co=2.1 μ F , Lo=32mH