

NPEXB-CM31L

Single input, single output

NPEXB-CM3D11L

Double inputs, double outputs

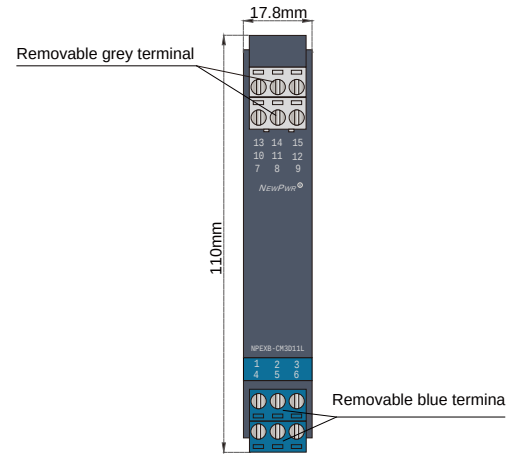
Input: 4 ~ 20 mA

Output: 4 ~ 20 mA

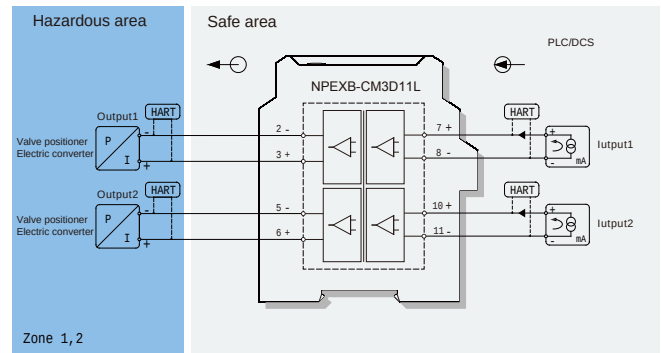
Analog output isolated barrier, it transfers 4~20mA signals from a safe area to a hazardous area. It has loop powered. The input and output is galvanically isolated from each other.

Parameters

Loop Powered:	18V DC ~ 30V DC (Reverse power protection)
Input signal:	4 ~ 20mA, HART
Output signal:	4 ~ 20mA, HART
Load resistance:	$R_L \leq [(U-8)/0.02]\Omega$; U is loop powered voltage
Accuracy:	0.2%F.S.
Temperature drift:	0.01%F.S./°C
Response time:	≤ 2ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 2500V AC (intrinsically safe side / non-intrinsically safe side)
Insulation resistance:	≥ 100MΩ (Input /Output)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	17.8mm (W) × 110mm (H) × 117mm (D)



Wiring diagram



Explosive-proof parameters

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

Ex marking: [Ex ib Gb] IIC

[Ex ib Db] IIIC

Um: 250V

Certified parameters (Terminals 2, 3; 5, 6):

$U_0=23.1V$, $I_0=27mA$, $P_0=623.7mW$

IIC: $C_0=0.06\mu F$, $L_0=1.9mH$

IIIC(IIB): $C_0=0.16\mu F$, $L_0=85mH$