

AO Isolated Barrier

NPEXB-CM3D11

Double inputs, double outputs

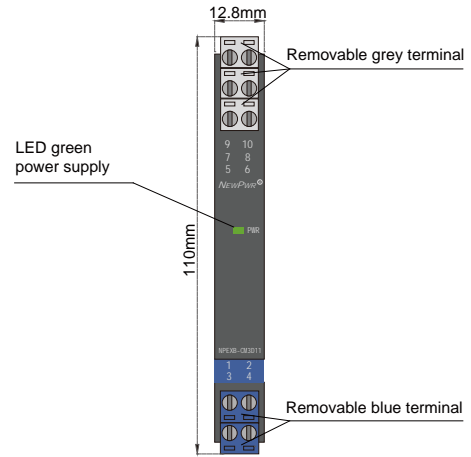
Input: 4 ~ 20 mA

Output: 4 ~ 20 mA

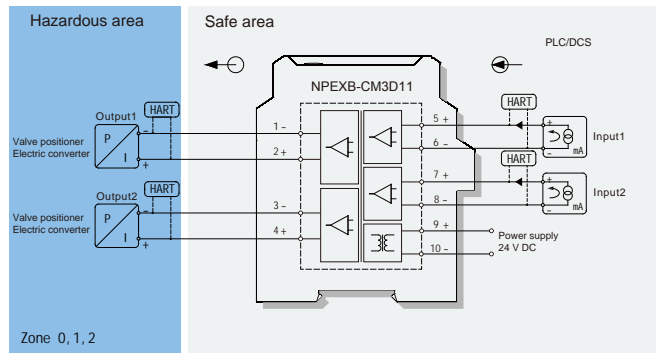
Analog output isolated barrier, it transfers 4~20mA signals from a safe area to a hazardous area. It allows transmission of HART communication signals. The input, output, and power supply are galvanically isolated from each other.

Parameters

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	2.2W
Input signal:	4 ~ 20mA, HART
Output signal:	4 ~ 20mA, HART
Load resistance:	$R_L \leq 800\Omega$
Input voltage drop:	$\leq 1.2V$
Accuracy:	0.1%F.S.
Temperature drift:	30ppm/°C
Response time:	$\leq 2ms$
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	$\geq 3000V$ AC (intrinsically safe side / non-intrinsically safe side) $\geq 1500V$ AC (Power supply/non-intrinsically safe side)
Insulation resistance:	$\geq 100M\Omega$ (Input /Output/Power supply)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	12.8mm (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 ia Ga] IIC

Um: 250V

Certified parameters (Terminals 1, 2;3, 4):

Uo=27.3V, Io=92mA, Po=628mW

II C: Co=0.058μF, Lo=2.8mH

II B: Co=0.65μF, Lo=8.4mH

II A: Co=2.25μF, Lo=22.4mH