

NPEXA-C88

Single input, single output

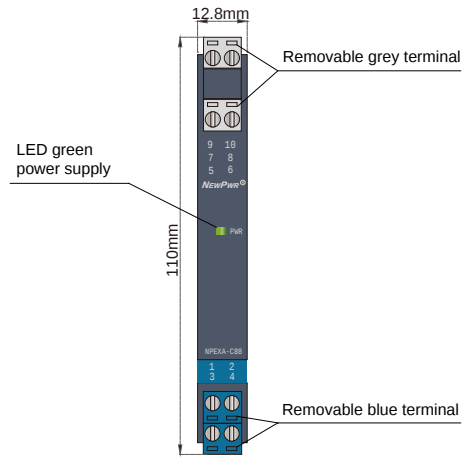
Input: -10V ~ 10V

Output: 1:1

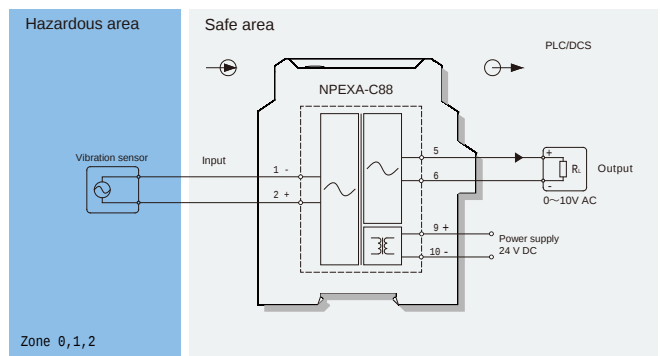
Vibration sensor input isolated barrier, it transfers the output signal of magneto-electric transducer from a hazardous area to a safe area. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other.

Parameters

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	0.6W
Input signal:	-10V ~ 10V
Line resistance:	< 10kΩ
Output signal:	-10V ~ 10V
Load resistance:	< 10Ω
DC accuracy:	< ±20mV
AC accuracy:	0Hz ~ 1kHz ±1 % 1kHz ~ 20kHz -2 % ~ +1 %
Cut-off frequency:	-0.1dB (1kHz)
Vibration frequency:	5Hz ~ 500Hz
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 3000V AC (intrinsically safe side / non-intrinsically safe side) ≥ 1500V AC (Power supply/non-intrinsically safe side)
Insulation resistance:	≥ 100MΩ (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

China National Quality Supervision and Test Centre for Explosion Protected Electrical Products (CQST)

Ex marking: [Ex ia Ga] IIC

[Ex ia Da] IIIC

Um: 250V

Certified parameters (Terminals 1, 2):

Uo=12.6V, Io=0.7mA, Po=2.3mW

Co=1.1μF, Lo=100mH

