

NPEXA-C11V5

Single input, single output

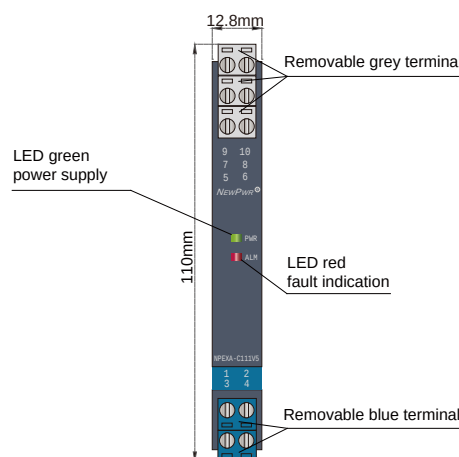
NPEXA-C111V5

Single input, double outputs

Input: 0 ~ 100 mV

Output: 4 ~ 20 mA

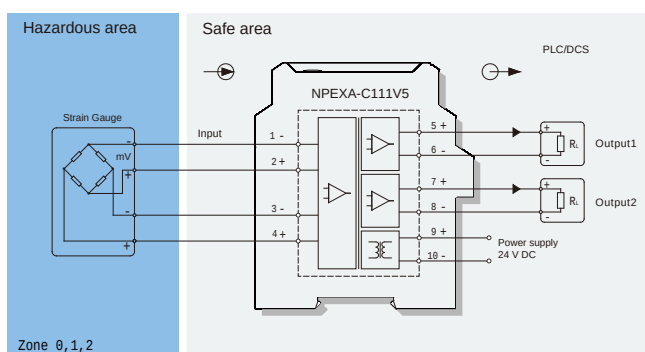
Strain gauge input isolated barrier, it converts the strain gauge signals from a hazardous area into 4~20mA signals to a safe area by isolation. The input, output, and power supply are galvanically isolated from each other.



Parameters

Power supply:	18V DC ~ 32V DC (Reverse power protection)
Power dissipation:	1.2W (single output) 2.4W (double outputs)
Input signal:	0 ~ 100mV
Excitation voltage:	5V
Output signal:	4 ~ 20mA
Load resistance:	$R_L \leq 550\Omega$
Accuracy:	0.1%F.S.
Temperature drift:	30ppm/°C
Response time:	$\leq 500\text{ms}$
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	$\geq 3000\text{V AC}$ (intrinsically safe side / non-intrinsically safe side) $\geq 1500\text{V AC}$ (Power supply /non-intrinsically safe side)
Insulation resistance:	$\geq 100\text{M}\Omega$ (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

[Ex ia Da] IIIC

Um: 250V

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

$U_o=27.3\text{V}$, $I_o=113\text{mA}$, $P_o=772\text{mW}$

IIC: $C_o=0.05\mu\text{F}$, $L_o=1.5\text{mH}$

IIIC(II B): $C_o=0.65\mu\text{F}$, $L_o=4.5\text{mH}$

Model rules

NPEXA-C11V5

PB: BUS powered

Default: Terminals powered

The second output signal^{note1}

Default: null

The first output signal^{note1}

note1: output signal

Number	Output signal
1	4~20mA
2	1~5V
3	0~10mA
4	0~5V
5	0~10V
6	0~20mA