

NPEXA-H9D11 double input, double output

Input: potentiometer

Output: 4 ~ 20 mA

This isolated safety barrier converts the 3-wire potentiometer signals from a hazardous area into current signals to a safe area by isolation. The input, output, and power supply are galvanically isolated from each other. You can use handheld programmer to modify parameters or to calibrate the apparatus.

Technical data

Power supply:	18 V DC~32 V DC (Reverse power protection)
Power dissipation:	1.5 W (24V DC, double output)
Input signal:	3-wire potentiometer: 0 Ω ~ 10 kΩ
Output signal:	4 ~ 20 mA
Load resistance:	$R_L \leq 500 \Omega$
Accuracy:	$\pm 0.1\%F.S.$
Temperature drift:	$0.01\%F.S./^{\circ}C$
Response time:	$\leq 1s$
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	$\geq 2500 V AC$ (intrinsically safe side / non-intrinsically safe side) $\geq 500 V AC$ (Power supply side /non-intrinsically safe side)
Insulation resistance:	$\geq 100 M\Omega$ (Input /Output/Power supply)
Operation temperature:	$-20^{\circ}C \sim +60^{\circ}C$
Storage temperature:	$-40^{\circ}C \sim +80^{\circ}C$
Dimension:	15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D)
Output states:	Whatever input fault status (except breakage), the output follows the input within measuring range. And the maximum value would not exceed the 110% of the upper limit of the measuring range (e.g. When the output signal type is 0 ~ 20 mA, the minimum output value may be 0 mA, the maximum output value would not exceed 22 mA)

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, 3; 4, 5, 6):

$U_o=7.3V$, $I_o=27mA$, $P_o=50mW$

II C $C_o=12\mu F$ $L_o=28mH$

II B $C_o=151\mu F$ $L_o=84mH$

II A $C_o=700\mu F$ $L_o=224mH$

Model rules

