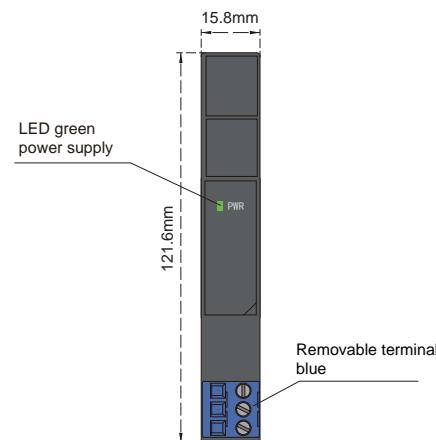


## NPEXA-HM411

single input, double output

Input: 1 ~ 5 V  
Output: 4 ~ 20 mA

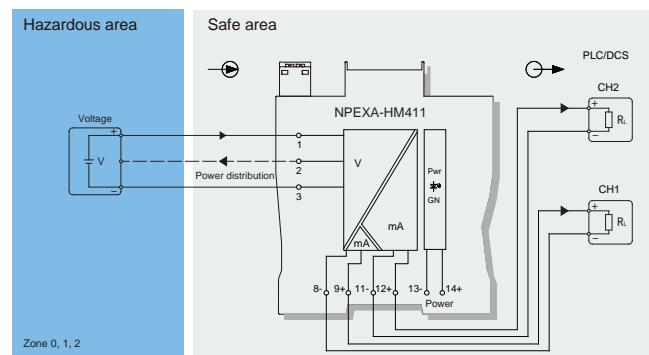
This isolated safety barrier detects loop voltage and converts it from a hazardous area into current signals to a safe area by isolation, and also provides transmitters with power in the hazardous area. The input, output, and power supply are galvanically isolated from each other.



## Technical data

Power supply:	18 V DC~32 V DC (Reverse power protection)
Power dissipation:	1.8 W (24V DC, double output)
Input signal:	1 ~ 5V
Input resistance:	$\geq 1\text{M}\Omega$
Available voltage:	open-circuit voltage $\leq 26$ V voltage: $\geq 15.5$ V at 20 mA
Output signal:	4 ~ 20mA
Load resistance:	$RL \leq 450\Omega$
Accuracy:	$\pm 0.1\%$ F.S.
Temperature drift:	0.005%F.S./°C
Response time:	$\leq 2\text{ms}$
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:	$\geq 100\text{ M}\Omega$ ( Input /Output/Power supply)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	15.8 mm (W) x 121.6 mm (H) x 104.8 mm (D)

## 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, 3):

Uo=5V, Io=1mA, Po=2mW

II C : Co=70μF , Lo=999mH

II B : Co=700μF , Lo=999mH

II A : Co=700μF , Lo=999mH

Certified parameters (Terminals 2, 3):

Uo=28V, Io=93mA, Po=651mW

II C : Co=0.08μF , Lo=4mH

II B : Co=0.6μF , Lo=12mH

II A : Co=2.1μF , Lo=32mH

## Other ordering information

Type	Input	Output1	Output2	Power supply
NPEXA-HM412	1 ~ 5V	4 ~ 20mA	1 ~ 5V	backplane mounting
NPEXA-HM422	1 ~ 5V	1 ~ 5V	1 ~ 5V	backplane mounting
NPEXA-HM455	0 ~ 10V	0 ~ 10V	0 ~ 10V	backplane mounting