

## NPEXA-CM3D11

Double inputs, double outputs

Input: 4 ~ 20 mA

Output: 4 ~ 20 mA

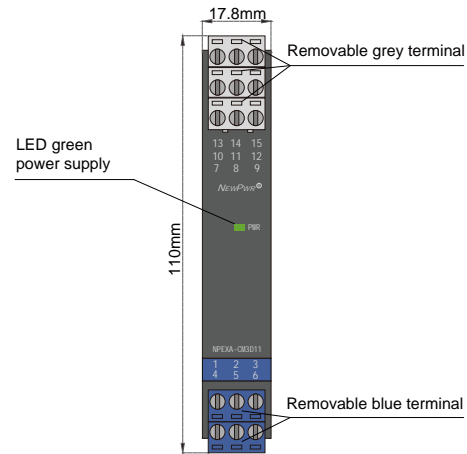
Analog input isolated barrier, it provides transmitters with power in the hazardous area and transfers 4~20mA signals from a hazardous area to a safe area. It allows transmission of HART communication signals. The input, output, and power supply are galvanically isolated from each other.

### Parameters

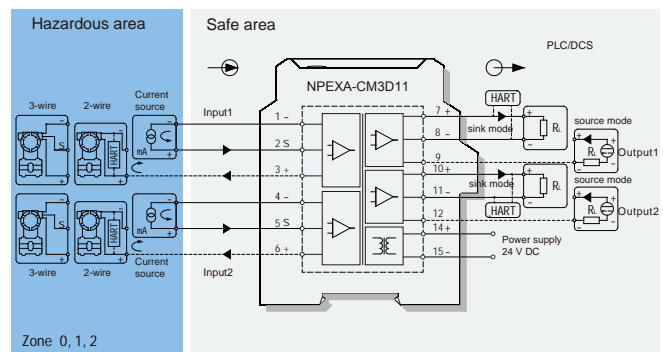
Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	2.5W
Input signal:	4 ~ 20mA, HART
Input resistance:	approx. 75Ω
Available voltage:	open-circuit voltage ≤ 26V voltage: ≥ 15.5V at 20mA
Output signal:	4 ~ 20mA (sink/source), HART
Load resistance:	source: $R_L \leq 500\Omega$ sink: $R_L < [(U-3)/0.02]\Omega$ ; U: Loop power supply
Accuracy:	0.1%F.S.
Temperature drift:	30ppm/°C
Response time:	≤ 2ms
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:	17.8mm (W) × 110mm (H) × 117mm (D)

### Other ordering information

Type	Input	Output1	Output2	Power supply
NPEXA-CM3D22	4 ~ 20mA	1 ~ 5V	1 ~ 5V	Terminal
NPEXA-CM3D55	0 ~ 20mA	0 ~ 10V	0 ~ 10V	Terminal



### 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;4, 5):

Uo=5V

II C: Co=70μF

II B: Co=700μF

II A: Co=700μF

Certified parameters (Terminals 2, 3;5, 6):

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

II C: Co=0.058μF, Lo=2.8mH

II B: Co=0.45μF, Lo=8.4mH

II A: Co=1.50μF, Lo=22.4mH