

Communication Isolated Barrier

NPEXA-C711C

Single input, single output

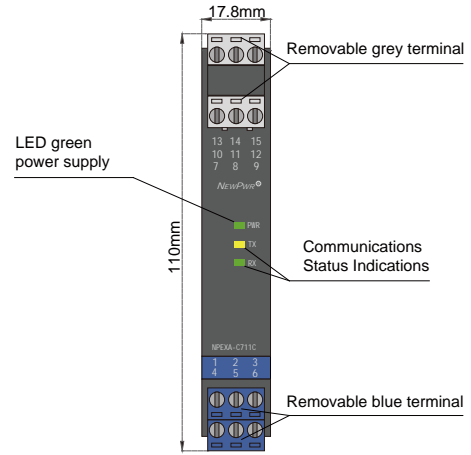
Input: RS-485

Output: RS-485

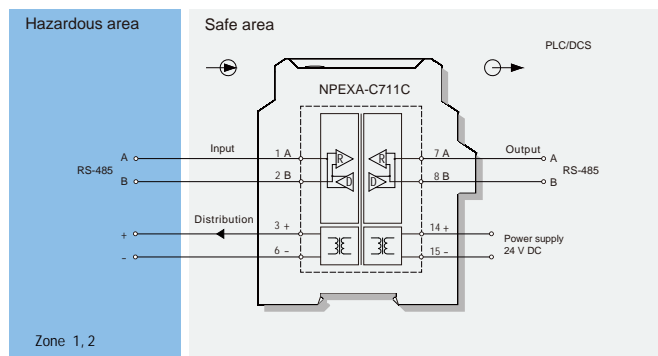
Communication input isolated barrier, it converts the RS-485 digital signals from a hazardous area into RS-485 digital signals to a safe area by isolation, and also provides transmitters with power in the hazardous area. The input, output, and power supply are galvanically isolated from each other.

Parameters

Power supply:	18V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	≤ 4W
Input signal:	RS-485
Control mode:	half-duplex
Output signal:	RS-485
Transmission delay:	≤ 5μs
Transmission rate:	≤ 56kbps
Distribution voltage:	24V DC±10%, 100mA
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)



Wiring diagram



Explosive-proof parameters

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

Ex marking: [Ex ib Gb] IIB

Um: 250V

Certified parameters (Terminals 1, 2):

Uo=7.6V, Io=77mA, Po=147mW

II B: Co=112μF, Lo=12mH

II A: Co=700μF, Lo=32mH

Certified parameters (Terminals 3, 6):

Uo=27.3V, Io=121.2mA, Po=3309mW

II B: Co=0.47μF, Lo=3.78mH

II A: Co=1.59μF, Lo=10mH