

NPEXA-C744Z

Single input, single output

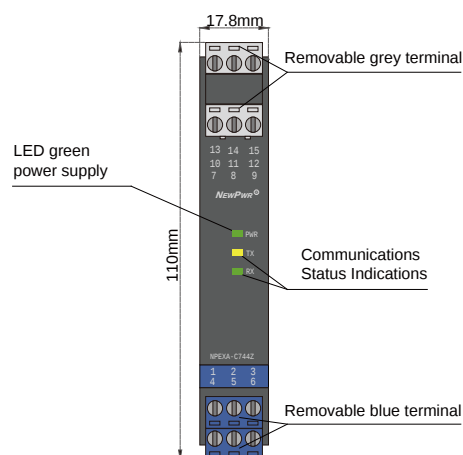
Input: CAN

Output: CAN

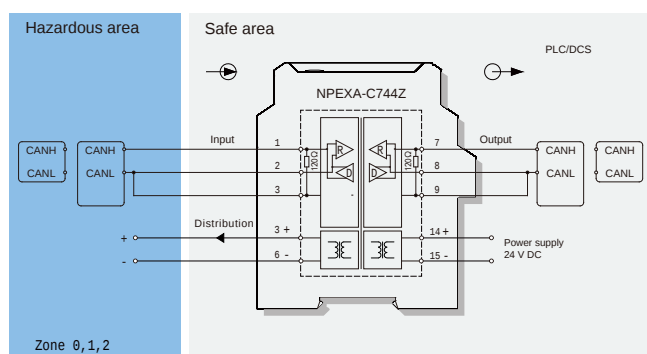
Communication input isolated barrier, it converts the CAN digital signals from a hazardous area into CAN digital signals to a safe area by isolation, and also provides transmitters with power in the hazardous area. The input, output, and power supply are galvanically isolated from each other.

Parameters

Power supply:	18V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	≤ 2W
Input signal:	CAN
Control mode:	half-duplex
Output signal:	CAN
Transmission delay:	≤ 2μs
Transmission rate:	≤ 300kbps
Drive nodes:	≤ 10
Distribution voltage:	9V DC±10%, 140mA
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 ia Ga] IIC

Um: 250V

Certified parameters (Terminals 1, 2, 3):

Uo=5.88V, Io=297mA, Po=437mW

II C: Co=43μF, Lo=0.3mH

II B: Co=1000μF, Lo=0.9mH

II A: Co=1000μF, Lo=2.4mH

Certified parameters (Terminals 5, 6):

Uo=17V, Io=460mA, Po=1955mW

II C: Co=0.26μF, Lo=117.6mH

II B: Co=1.54μF, Lo=352mH

II A: Co=6.3μF, Lo=940mH