

Communication Isolated Barrier

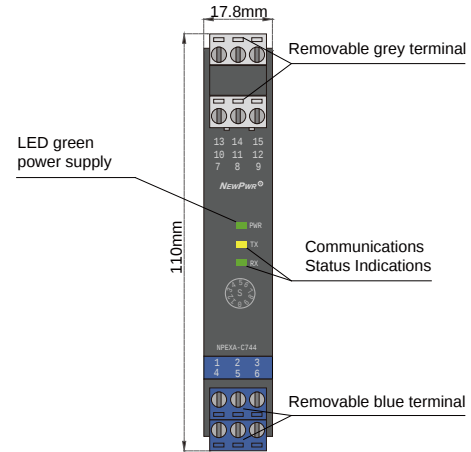
NPEXA-C744

Single input, single output

Input: CAN

Output: CAN

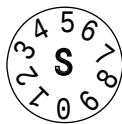
Communication input isolated barrier, it converts the CAN digital signals from a hazardous area into CAN digital signals to a safe area by isolation, and also provides transmitters with power in the hazardous area. The input, output, and power supply are galvanically isolated from each other.



Parameters

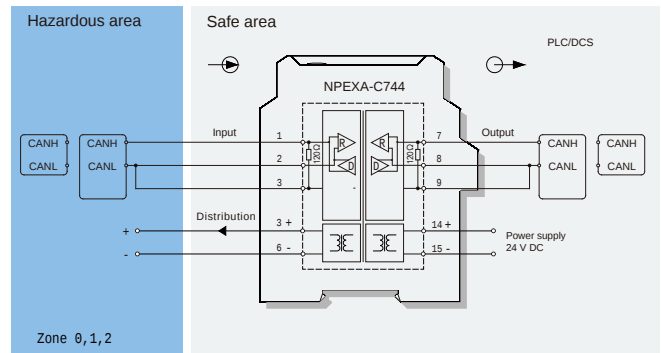
Power supply:	18V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	≤ 2W (Distribution: 8V/9V/12V, 50mA) ≤ 4W (Distribution: 5V/ 6V, 100mA)
Input signal:	CAN
Control mode:	half-duplex
Output signal:	CAN
Transmission delay:	≤ 2μs
Transmission rate:	≤ 300kbps
Drive nodes:	≤ 10
Distribution voltage:	Refer to rotary switch setting
Voltage tolerance:	±10%
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)

Rotary switch setting



Rotary switch	Distribution
S0	5V DC, 100mA
S1	6V DC, 100mA
S2	8V DC, 50mA
S4	9V DC, 50mA
S8	12V DC, 50mA

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=23.1V, Io=187mA, Po=1080mW

II C: Co=0.07μF, Lo=0.4mH

II B: Co=0.7μF, Lo=1.2mH

II A: Co=2.5μF, Lo=3.6mH