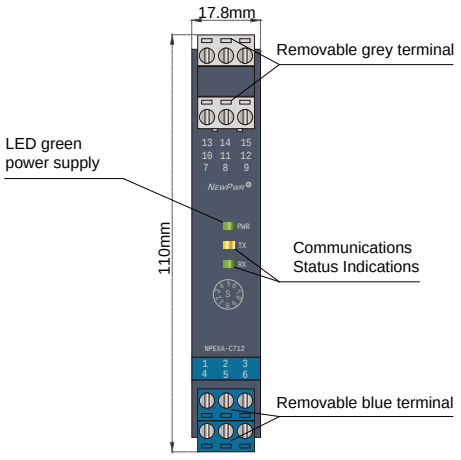
NPEXA-C712

Single input, single output

Input: RS-485
Output: RS-232

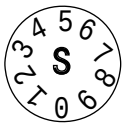
Communication input isolated barrier, it converts the RS-485 digital signals from a hazardous area into RS-232 digital signals to a safe area by isolation, and also provides transmitters with power in the hazardous area. The input, output, and power supply are galvanically isolated from each other.



Parameters

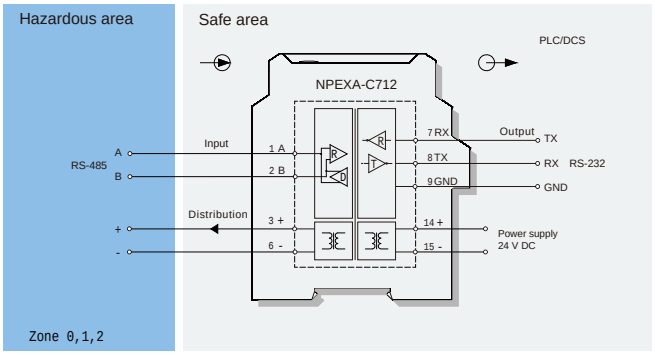
Power supply:	18V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	≤ 2W (Distribution: 8V/9V/12V, 50mA) ≤ 3.5W (Distribution: 5V/ 6V, 100mA)
Input signal:	RS-485
Control mode:	half-duplex
Output signal:	RS-232
Transmission delay:	≤ 5μs
Transmission rate:	≤ 56kbps
Distribution voltage:	Refer 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
[Ex ia Da] ⅢC

Um: 250V

Certified parameters (Terminals 1, 2):

Uo=7.6V, Io=77mA, Po=147mW
Co=7μF, Lo=6mH

Certified parameters (Terminals 3, 6):

Uo=23.1V, Io=187mA, Po=1080mW
Co=0.1μF, Lo=0.34mH