

NPEXA-C5F11

Four input, four output

Input: dry contact or proximity switch

Output: relay

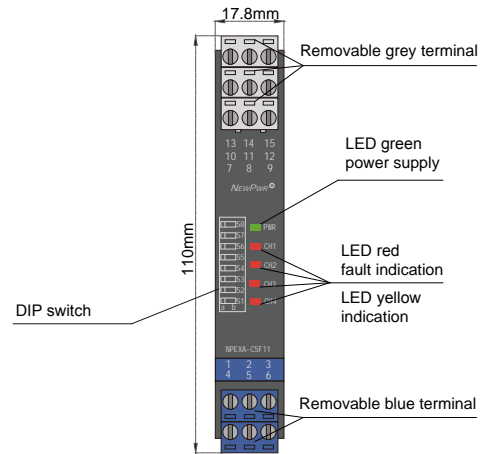
Digital input isolated barrier, it converts switch or proximity detector signals (dry contact or NAMUR) from a hazardous area into relay signals to a safe area by isolation. The normal output state can be set with the DIP switch. The input, output, and power supply are galvanically isolated from each other.

Parameters

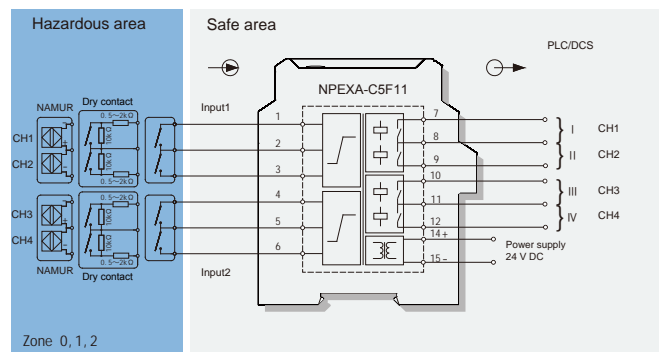
Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	2W
Input signal:	Dry contact or NAMUR
Switching trigger point:	Input signal > 2.1mA, signal "1", the yellow LED is always bright Input signal < 1.2mA, signal "0", the yellow LED goes out
Open-circuit voltage:	goes out
Short-circuit current:	Approx.8V
Output signal:	Approx.8mA
Load capacity:	Relay contact
LFD function:	125VAC/0.5A, 24VDC/1A When input current ≤ 50μA, considers the input line breakdown, the output relay de-energized. If input current ≥ 6.5mA, considers the input circuit short-circuit, the output relay de-energized, the indicator red flashing
Relay mechanical life:	> 100000 switching cycles
Switch frequency:	< 10Hz
Energized/De-energized delay:	< 20ms
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)

DIP switch settings

Switch	State	a	b
S1		output1 normal mode	output1 inverted mode
S2		output1 LFD on	output1 LFD off
S3		output2 normal mode	output2 inverted mode
S4		output2 LFD on	output2 LFD off
S5		output3 normal mode	output3 inverted mode
S6		output3 LFD on	output3 LFD off
S7		output4 normal mode	output4 inverted mode
S8		output4 LFD on	output4 LFD off



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; 3; 4; 5; 6):

Uo=10.5V, Io=11.3mA, Po=29.7mW

II C: Co=1.6μF, Lo=195mH

II B: Co=11.7μF, Lo=585mH

II A: Co=52.5μF, Lo=1000mH