

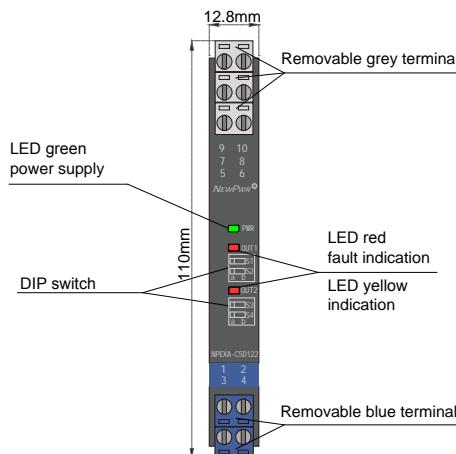
NPEXA-C5D122

Double inputs, double outputs

Input: dry contact or proximity switch

Output: transistor

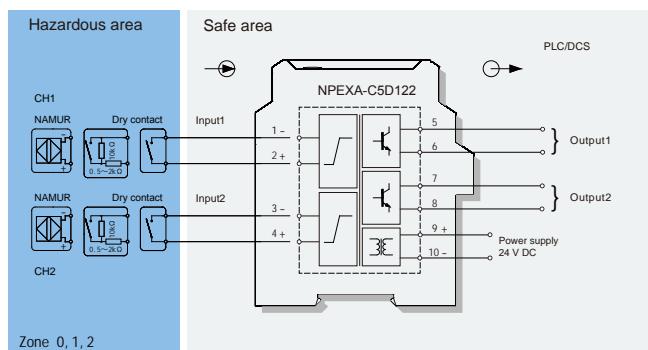
Digital input isolated barrier, it converts switch or proximity detector signals (dry contact or NAMUR) from a hazardous area into transistor signals to a safe area by isolation. The normal output state and line fault detection function can be set with the DIP switch. The input, output, and power supply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

**Parameters**

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	1W
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:	Approx.8.5V
Short-circuit current:	Approx.8.5mA
Output signal:	Output signal Transistor
Sink current:	≤ 40mA
External voltage:	< 40V DC
LFD function:	When input current ≤ 50µA, considers the input line breakdown, the output transistor de-energized. If input current ≥ 6.5mA, considers the input circuit short-circuit, the output transistor de-energized, the indicator red flashing
Switching frequency:	< 5kHz
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:	12.8mm (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

Wiring diagram**Explosive-proof parameters**

National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)

Ex marking: [Ex ia Ga] IIC

Um: 250V

Certified parameters (Terminals 1, 2; 3, 4):

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

IIC: Co=0.97µF, Lo=100mH

IIB: Co=11µF, Lo=300mH

IIA: Co=52µF, Lo=700mH

