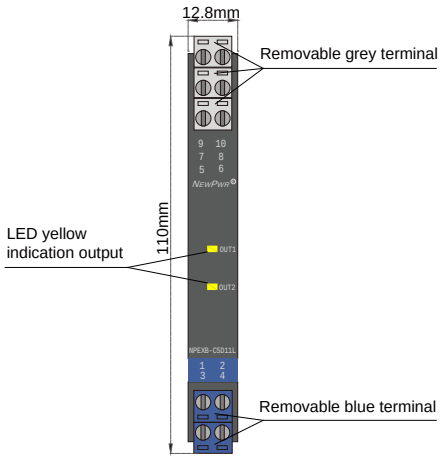
NPEXB-C511L Single input, single output

NPEXB-C5D11L Double inputs, double outputs

Input: wet contact
Output: 35mA

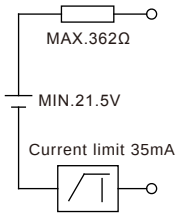
Digital output isolated barrier. By switch signal controlling, transfers the wet contact signals from a safe area into current signals to a hazardous area, and drives field device like intrinsically safe valves, audible alarms, etc. It has loop powered. The input and output is galvanically isolated from each other.



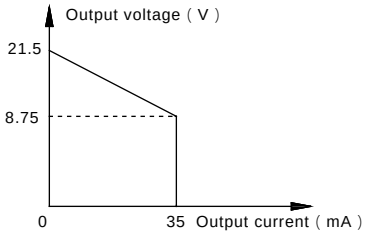
Parameters

Loop Powered:	20V DC ~ 30V DC (Reverse power protection)
Power dissipation:	≤ 1.2W (24V, single output)
	≤ 2.4W (24V, double outputs)
Input signal:	wet contact
Output voltage:	> 8.75V DC
Open-circuit voltage:	21.5V DC
Output current:	≤ 35mA

Output equivalent circuit

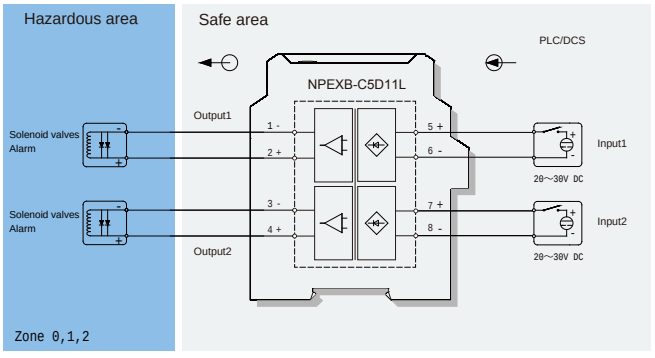


Output characteristics diagram



Response time:	< 20ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 3000V AC (intrinsically safe side / non-intrinsically safe side)
Insulation resistance:	≥ 100MΩ (Input /Output)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	12.8mm (W) × 110mm (H) × 117mm (D)

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=25.2V, Io=72mA, Po=454mW
II C: Co=0.107μF, Lo=6mH
II B: Co=0.82μF, Lo=18mH
II A: Co=2.9μF, Lo=48mH