

DO Isolated Safety Barrier

NPEXB-H512L single input, single output

Input: wet contact
Output: 45mA

By switch signal controlling, transfers the digital signals (wet contact) from safe area into current signals to hazardous area, and drives field device like intrinsically safe valves, audible alarms, etc. The input, output are galvanically isolated from each other.

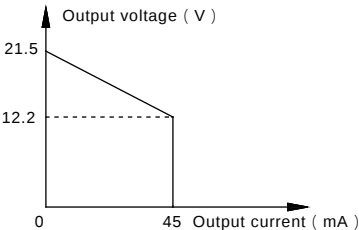
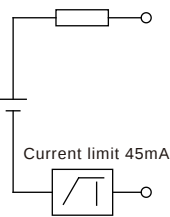


Technical data

- Loop Powered: 20 V DC-30 V DC (Reverse power protection)
- Power dissipation:
- Input signal: wet contact
- Output voltage: > 12.2V DC
- Open-circuit voltage: 21.5V DC
- Output current:

Output equivalent circuit

Output characteristics diagram



- Response time: < 20ms
- Electromagnetic compatibility: IEC 61326-3-1
- Dielectric strength: non-intrinsically safe side)
- Insulation resistance:
- Operation temperature: -20°C ~ +60°C
- Storage temperature: -40°C ~ +80°C
- Dimension: 15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D)

Wiring diagram

Explosive-proof parameters

- National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)
- Explosive-proof grade: [Ex ia Ga] II C
- Um: 250 V
- Certified parameters (Terminals 1, 2):
 - Uo=25.2V, Io=125mA, Po=790mW
 - II C Lo=1.5mH
 - II B Lo=4.5mH
 - II A Lo=12mH