AO Isolated Barrier

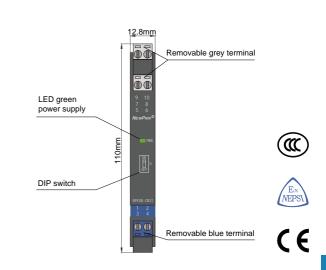
NPEXB-CM31

Input: 4 ~ 20 mA Output: 4 ~ 20 mA

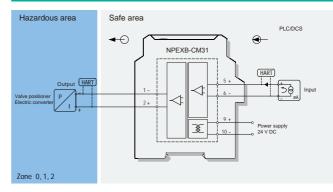
Parameters

Single input, single output

Analog output isolated barrier, it transfers 4~20mA signals from a safe area to a hazardous area. It allows transmission of HART communication signals. The input, output, and power supply are galvanically isolated from each other. The LFD function of output short-circuit/ line-break can be closed by the DIP switch.



Wiring diagram



Explosive-proof parameters

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	1W
Input signal:	4 ~ 20mA, HART
Output signal:	4 ~ 20mA, HART
Load resistance:	80Ω ~ 800Ω
Input voltage drop:	≤ 1.2V
Line Failure state:	When the output load resistance was detected
	less than 30 $\!\Omega\!,$ the output is in the fault of short
	circuit. When the output load resistance was
	detected more than 8000 $\Omega,$ the output is in the
	fault of line breakage. If the output is in the fault,
	the input current value is limited to within 1mA and
	the output current value is limited to 3mA.
Accuracy:	0.1%F.S.
Temperature drift:	30ppm/°C
Response time:	≤ 2ms
Electromagnetic	IEC 61326-3-1
compatibility:	
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	ON	OFF
S		LFD on	LFD off