

H Serie Backplane Mounting Isolated Safety Barriers

PHC-11HD-11



Overview

H serie backplane mounting isolated safety barriers at operating side: PHC-11HD-11, input and output with analog, single input and single output.

The safety barrier can transmit the 4~20mA signal from safe area to the dangerous area, to drive the valve positioner, electric/gas converters and other actuators to work.

This product needs independent power supply.

Terminal isolation between power supply, input and output.

4~20mA input/4~20mA output

1 input 1 output

Specifications

Supply voltage	20~35VDC, power consumption about 1.2W (when 24 VDC, output 20mA)
Input signal	4~20mA (HART)
Output signal	4~20mA (HART)
Allowable output load capacity	0~800 Ω
Output accuracy	0.1%F.S (Typical value: 0.05%F.S)
Temperature drift	0.005%F.S/°C
Number of input and output	1 input 1 output
Applicable field equipments	Valve positioner, electric/pneumatic converter
Temperature parameter	Working temperature: -20°C~+60°C, storage temperature: -40°C~+80°C
Relative humidity	10%~95% RH no condensation
Dielectric strength	Between intrinsically safe side and non-intrinsically safe side (≥3000VAC/min); between power supply and non-intrinsically safe terminal (≥1500VAC/min)
Insulation resistance	≥100MΩ (between input/output/power supply)
External dimensions	Thickness 15.8mm * width 104.8mm * high 116.1mm
Electromagnetic compatibility	According to IEC 61326-1 (GB/T 18268), IEC 61326-3-1
Explosion-proof mark	[Exia Ga]IIC, [Exia Da]IIC
Functional safety certification	SIL2 according to IEC 61508 EN 61511 standards
Certification body	CQST(China National Quality Supervision and Test Centre for Explosion Protected Electrical Products)
Certified parameters (between terminals 2-1)	Um=250V Uo=28V Io=93mA Po=0.65W Co=0.083μF Lo=4.2mH
Installation site requirements	It can be connected with instruments in 0 zone with II A, II B, II C dangerous gas
MTBF	About 100000h

