

概述 Overview

隔离式操作端安全栅PHC-11TD-11，模拟量输入输出，一路输入一路输出。

安全栅可将安全区4~20mA信号传输到危险区，驱动现场的阀门定位器、电/气转换器等执行机构工作。

本产品需要外接20~35VDC电源。

电源、输入、输出三端隔离。

*总线端子供电，详见附录。

Isolated safety barrier at operating side: PHC-11TD-11, input and output with analog signal, single input and single output.

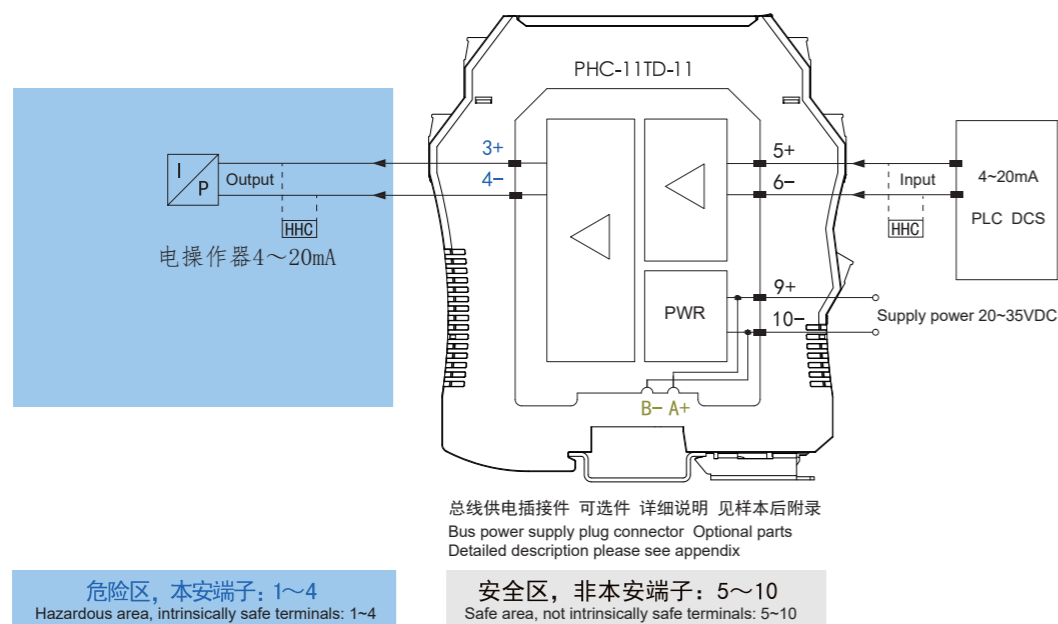
The safety barrier can transmit the 4~20mA signal from safe area to the dangerous area, to drive the valve positioner, electric/gas converters and other actuators to work.

This product needs an external 20~35VDC power supply.

Terminal isolation between power supply, input and output.

* Bus terminal power supply, please see appendix for details.

接线图 Wiring diagram



技术数据 Specifications

供电电压 Supply voltage	20~35VDC, 功耗约1.2W (24VDC, 输出20mA时) 20~35VDC, power consumption about 1.2W (when 24 VDC, output 20mA)
输入信号 Input signal	4~20mA (HART)
输出信号 Output signal	4~20mA (HART)
允许输出负载能力 Allowable output load capacity	0~500Ω (可定制) 0~500Ω (customizable)
输出精度 Output accuracy	0.1%F.S (典型值: 0.05%F.S) 0.1%F.S (Typical value: 0.05% F.S)
温度漂移 Temperature drift	0.005%F.S/°C
输入输出路数 Number of input and output	一路输入, 一路输出 1 input 1 output
适用的现场设备 Applicable field equipments	阀门定位器, 电/气转换器 Valve positioner, electric/pneumatic converter
温度参数 Temperature parameters	工作温度: -20°C~+60°C, 存储温度: -40°C~+80°C Working temperature: -20 C~+60 C, storage temperature: -40 C~+80 C
空气相对湿度 Relative humidity	10%~95%RH无凝露 10%~95% RH no condensation
绝缘强度 Insulation strength	本安端与非本安端 (≥3000VAC/min); 电源与非本安端之间 (≥1500VAC/min) Between intrinsically safe side and non-intrinsically safe side (≥3000VAC/min); between power supply and non-intrinsically safe side (≥1500VAC/min)
绝缘电阻 Insulation resistance	≥100MΩ (输入/输出/电源间) ≥100MΩ (between input/output/power supply)
电磁兼容性 Electromagnetic compatibility	符合IEC 61326-1 (GB/T 18268), IEC 61326-3-1 According to IEC 61326-1 (GB/T 18268), IEC 61326-3-1
防爆标志 Explosion-proof mark	[Exia Ga] IIC
功能安全认证 Functional safety certification	SIL2 符合IEC 61508 EN 61511标准 SIL2 according to IEC 61508 and EN 61511 standards
认证机构 Certification body	国家防爆电气产品质量监督检验中心CQST认证 CQST (China National Quality Supervision and Test Centre for Explosion Protected Electrical Products)
认证参数 (端子3-4之间) Certified parameters (between terminals 3-4)	Um=250V Uo=28V Io=93mA Co=0.05 μF Lo=2.4mH Po=0.65W
安装场所要求 Installation place requirements	可与具有IIA、IIB、IIC危险气体的0区本安仪表相连接 It can be connected with instruments in 0 zone with IIA, IIB, IIC dangerous gas
平均无故障时间 MTBF	约100000小时 About 100000h

端子定义及外形尺寸 Terminal assignments and dimensions

端子 Terminal	接线端子功能定义 Terminal assignments	
9	供电电源+ Power supply +	20~35VDC
10	供电电源- Power supply -	
5	输入+ Input+	4~20mA
6	输入- Input-	
3	输出+ Output+	4~20mA
4	输出- Output-	

