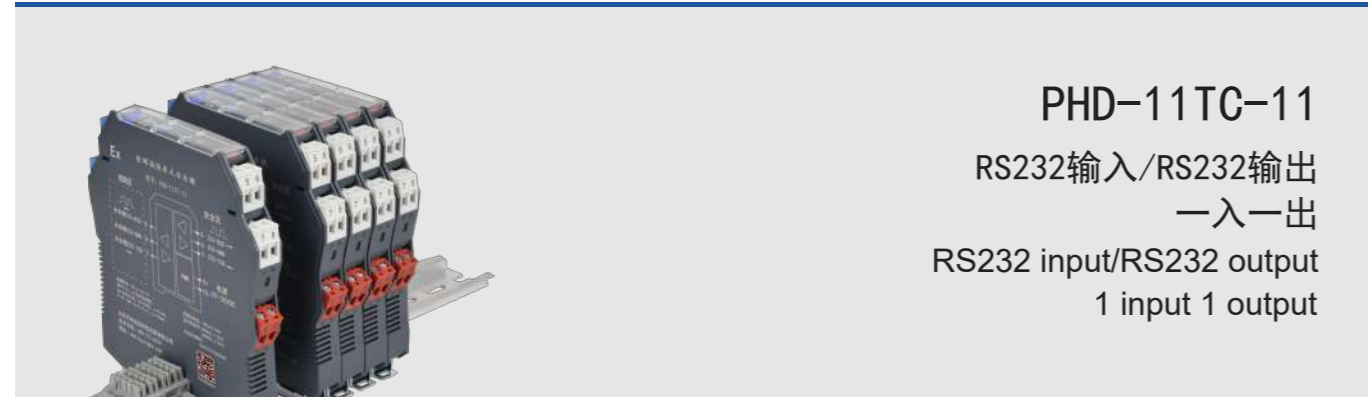


检测端安全栅 Isolated Safety Barrier at Detection Side



PHD-11TC-11
RS232输入/RS232输出
一入一出
RS232 input/RS232 output
1 input 1 output

概述 Overview

隔离式检测端安全栅：PHD-11TC-11，通讯信号输入，一路输入一路输出。

安全栅可实现：在危险区的RS232接口与在安全区的RS232接口之间，数字信号的双向通讯。

本产品需要外接20~35VDC电源。
产品带信号状态指示灯(黄色)。

*总线端子供电，详见附录。

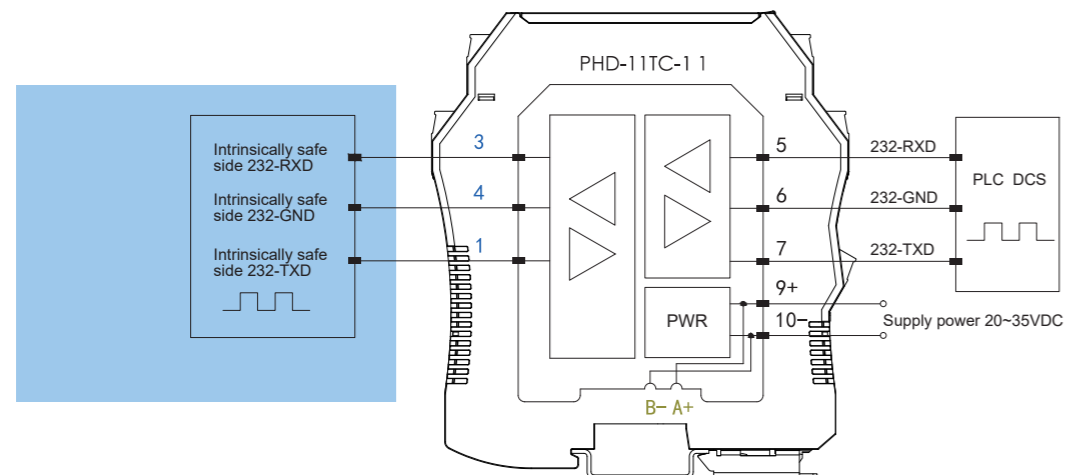
Isolated safety barrier at detection end: PHD-11TC-11, communication signal input, single input and single output.

The safety barrier can realize the bilateral communication of digital signals between RS232 interface in dangerous area and RS232 interface in safe area.

This product needs an external 20~35VDC power supply.
The product is equipped with signal status indicator (yellow)

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

接线图 Wiring diagram



总线供电插接件 可选件 详细说明 见样本后附录
Bus power supply plug connector Optional parts
Detailed description please see appendix

危险区，本安端子：1~4
Hazardous area, intrinsically safe terminals: 1~4

安全区，非本安端子：5~10
Safe area, not intrinsically safe terminals: 5~10

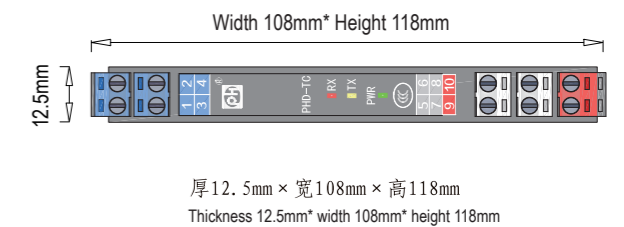
Communication Signal Input 通讯信号输入

技术数据 Specifications

供电电压 Supply voltage	20~35VDC, 功耗<1.5W 20~35VDC, power consumption<1.5W
输入信号 Input signal	RS232数字信号 RS232 digital signal
输出信号 Output signal	RS232数字信号 RS232 digital signal
输入输出路数 Channel 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 devices	带RS232的通讯接口设备 Communication interface equipment with RS232
传输速度 Transmission rate	传输速率≤56kbps Transmission rate ≤56kbps
传输延时 Transmission delay	≤10 μs
发送与接收切换时间 Sending and receiving switching time	≥20ms
温度参数 Temperature parameters	工作温度：-20℃~+60℃，存储温度：-40℃~+80℃ 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 Dielectric strength	本安端与非本安端(≥3000VAC/min)；电源与非本安端之间(≥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
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1-3-4之间) Authentication parameters (between terminals 1-3-4)	Um=250V Uo=15V Io=8.5mA Co=0.41 μF Lo=100mH Po=31.9mW
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	≤100000小时 (h)

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 +
10	供电电源- Power supply -
3	本安侧RS232-RXD Intrinsically safe side RS232-RXD
4	本安侧RS232-GND Intrinsically safe side RS232-GND
1	本安侧RS232-TXD Intrinsically safe side RS232-TXD
5	RS232-RXD
6	RS232-GND
7	RS232-TXD



厚12.5mm × 宽108mm × 高118mm
Thickness 12.5mm* width 108mm* height 118mm