PD140 Lightning-proof Protection Device

Features

•Suitable for 4 ~ 20mA current loop and RS485 signal channel

•Self-resetting;

•Effective to prevent transmitter damage from lightning, inductive switch and statis discharge;

•Common mode (wire & wire) protection and differential mode (wire & earth) protection;

•Response quickly;

•Housing protection IP65

Introduction

PD140 lightning-proof protection device is the new version which our company developed especially for transmitter outdoor application. Lightning strike is the main failure reason for level transmitter broken in outdoor measurement. PD140 device could reduce transmitter damage probability through inner protection components. It is effective to protect transmitter working normally and help customers to reduce losses.

Specification

•Max. flow of RS485 signal interface: ≥5kA (8/20us wave)

•Max. flow of 4 ~ 20mA channel: ≥10kA (8/20us wave)

•Operation temperature: -40°C ~ 80°C

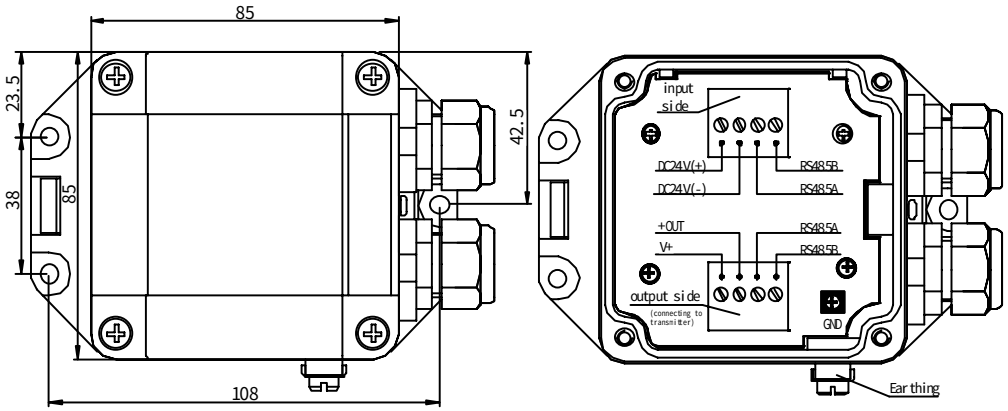
•Limited voltage: (4 ~ 20mA channel) 2-wire to the earth 28V (4 ~ 20mA channel) between 2-wire 28V

(RS485) 2-wire to the earth -7V ~ 12V (RS485) between 2-wire 6.5V

•Max. working current: (4 ~ 20mA channel) <40mA (RS485 channel) <120mA

•Installation: 3 bolts fixing / fixed by lead rail

Outline Construction and Electric Connection



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MICRO SENSOR CO.,LTD.

Order Notes

1. Please install the protection device to transmitter's protected side as close as possible;
2. In order to keep good protection class, please be sure the cable, which passes through the fixed conector, has diameter bweteen 5 ~ 10mm;
3. Please be sure the system earthing well. The cable between wiring terminal and earth wire is lessthan 1m, and cable cross section area is no less than 4mm^2. The earthing resistor should be less than 4 Ohms.

4、The lightning protection device has the certain voltage drop. At 20mA and normal temprature 25℃, the voltage drop is less than 2VDC; at high temperature condition 80℃, the voltage drop is less than 6VDC. Please pay attention to this influence to the load.

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