



Features

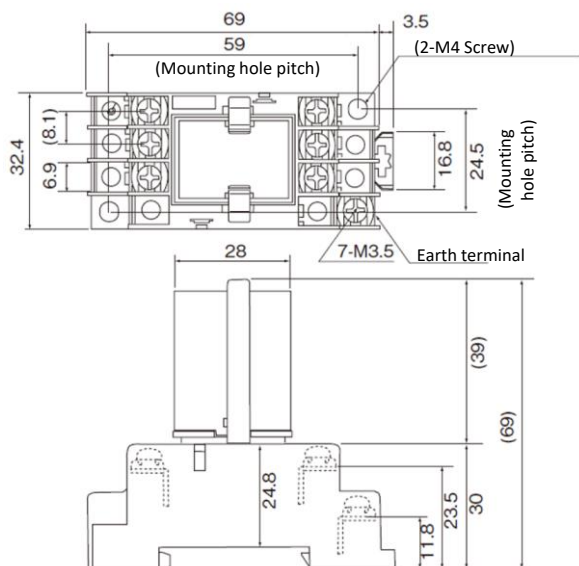
- ★ SPD (Surge Protective Device) for RS-485 communication
- ★ Comply with IEC 61643-21 protection category C2, D1
(C2 : 8/20 μ s 10kA, D1: 10/350 μ s 5kA)
- ★ DIN Rail installation
- ★ Easy maintenance by plug-in structure.
- ★ Materials prohibiting use of hazardous substances

Ordering code

WPD - 485 - 0

Series	Use	Suffix	Description
WPD	485		SPD
		0	For RS-485
			Standard

Specifications

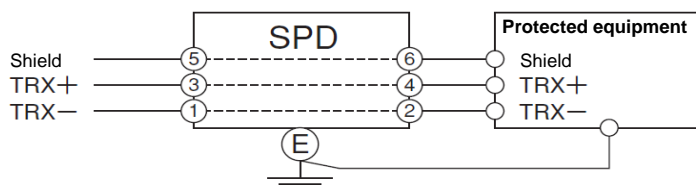


Dimensions

Rated input voltage	12Vdc
Max. Continuous operating voltage	18Vdc
Rated Current (Max. load current)	250mA
Impulse Durability	C2 (8/20 μ s) : 10kA 10 times D1 (10/350 μ s) : 1kA 2 times
Voltage protection Level (Up)	L-L : \leq 58V L-E : \leq 400V
Impulse reset	30ms or less
AC Durability	5 times (60Hz 0.5A 1sec)
Overstressed fault Mode	mode 2
Internal series resistance	2.2 Ω \pm 1%
Internal resistance temperature coefficient	\pm 200ppm/ $^{\circ}$ C
Typical capacitance	L-L : \leq 150pF L-E : \leq 10pF
Current leakage	L-L : \leq 10 μ A
Insertion loss	1.5dB
Transmission frequency	DC~2MHz
Response time	L-L : \leq 3ns L-E : \leq 0.1 μ s
Operation start voltage	L-L : \geq 22V
Discharge start voltage	L-E : \geq 150V
Limit voltage (Maximum line voltage)	L-L : 34V
Operating temperature & humidity range	-20 to +60 $^{\circ}$ C, 5 to 95%RH
Mounting	DIN rail or wall surface
Recommend tightening torque	1.8N·m to 2.0N·m
Dimensions	69(H) X 32.4(W) X 69(D)mm
Weight	Approx. 70g
Test classification	IEC 61643-21 protection category C2, D1 (C2 : 8/20 μ s 10kA, D1: 10/350 μ s 5kA)

Instruction

1) Application



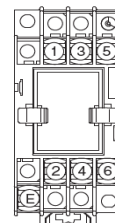
2) Wiring

- (1) When connecting the lead wire, use a crimp terminal with a diameter of 3.5 mm or a crimp terminal with a width of 6.9 mm or less, and securely tighten the terminal screw. Tighten with a torque of 0.8 N·m to 1.0 N·m.
- (2) Please use in the circuit below the maximum continuous operating voltage (Uc) of SPD.
- (3) Install the SPD as close to the equipment as possible to protect it.
- (4) Connect the SPD ground from the ground terminal (E) using a 2.0mm IV wire. Tighten with a torque of 0.8 N·m to 1.0 N·m.
- (5) Connect the SPD and protected equipment to a single point, or connect to the central grounding terminal. If one point or common ground is not possible, the protected device may not be protected.

3) Warranty

If the SPD is damaged by a lightning surge, an abnormality such as a drop in power supply or signal voltage will occur. In this case, pull out the main unit and it will return to normal. Replace with a new SPD as soon as possible. If you pull it out and it doesn't return to normal, there is a problem elsewhere, including the socket.

Terminal connection



No.	Symbol	Description
1	INPUT	Shield Input signal
2	OUTPUT	Shield Output signal
3	INPUT	TRX- Input signal
4	OUTPUT	TRX- Output signal
5	INPUT	TRX+ Input signal
6	OUTPUT	TRX+ Output signal
E	F.G.	Earth

* Specification is subject to change without notice