OTOWA

OTOWA Signal line SPD SPN-GVJ series Pluggable DIN Rail mounted SPDs

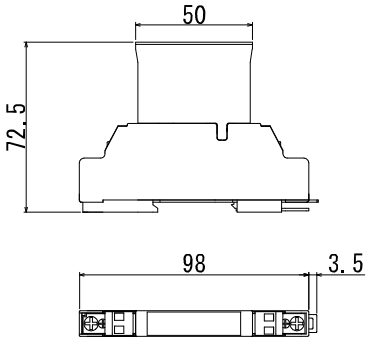
Space saving SPD module for protecting one pair of balanced interfaces with electrical isolation.

SPN-GV24J

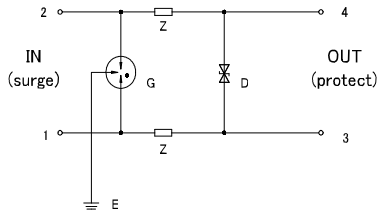
SPN-T170J

- Plug-in Module
- Low voltage protection level
- Easy to replace the protection modules
- No signal disconnection if the protection module is removed
- DIN rail mouted device
- EU RoHS Compliant with regulated substances

Type	SPN-GV24J	SPN-GV48J	SPN-T170J
SPD Class (Category)	C2 , D1		
Nominal d.c. Voltage (Un)	24V	48V	150V
Max. continuous operating d.c. voltage (Uc)	25.2V	52V	170V
Rated current	100mA		200mA
AC Durability	60Hz 0.5A 1sec 5shots		
Voltage protection level C2:8/20 μ s:5kA D1:10/350 μ s:2.5kA	L–L : ≦60V L–E : ≦400V	L–L : ≦115V L–E : ≦400V	L–L : ≦400V L–E : ≦500V
C2 Nominal discharge current (8/20 μ s)	5kA		
C2 Total Nominal discharge current (8/20 μ s) (In)	10kA		
D1 Lightning impulse current (10/350 μ s)	2.5kA		
D1 Total Lightning impulse current (10/350 μ s) (Iimp)	5kA		
Insertion Loss	≦1.5 dB		
Series impedance per line	9.1 ohm(s)		
Cut–off frequency line–line (fG) Characteristic impedance 600 Ω	2.7MHz	4.8MHz	4.0MHz
Typical Capacitance line–line (at 1MHz, 1Vrms)	≦500pF	≦180pF	≦200pF
Operating temperature range (Tu)	–40℃ ～ +70℃		
Weight	approx. 60g		
Enclosure material / Color	Polycarbonate/Black		
Place of installation	Indoor installations		
Degree of protection (Plugged–in)	IP20		
For mounting on	35mm DIN rails acc. to EN 60715		
Cross–sectional area	AWG 28 – 12※ (AWG12It may not be usable depending on the outer diameter of the cable sheath.)		
Test standards	IEC 61643–21		



Dimension drawing



Basic Circuit Diagram

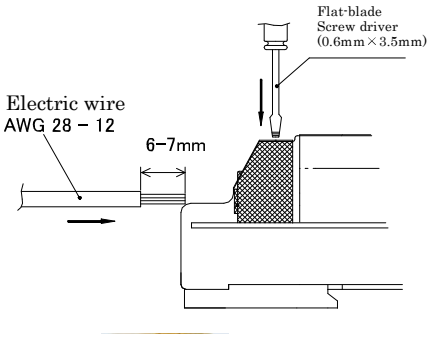
Other information

OTOWA web site

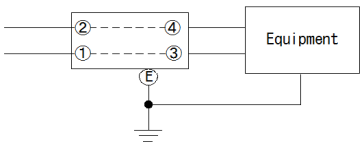
Instruction manual

OTOWA Signal line SPD SPN-GVJ series

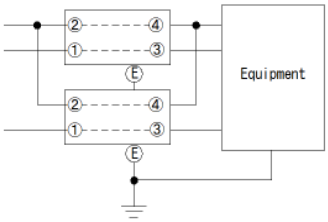
Connection



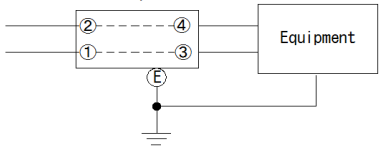
2 lines connection



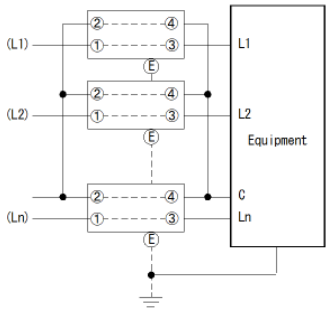
3 lines connection(2 SPDs are used)



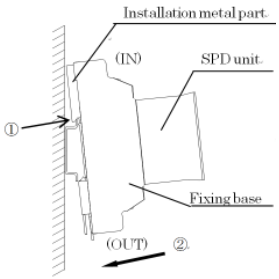
Connection to telephone line
SPD for telephone line



Connection to both common line and signal line
(The number of SPD depends on signal lines.)

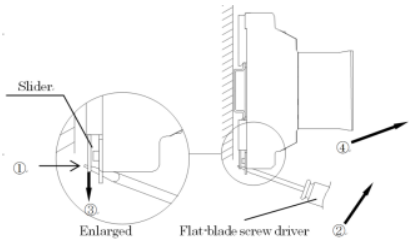


Installing the fixing base



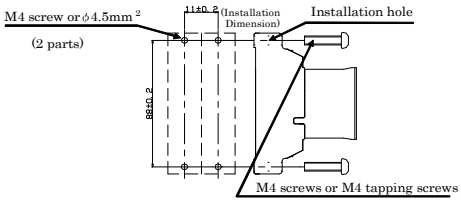
[Installation to DIN rail]

The SPD should be installed to the rail for equipment installation（35mm width of DIN standard rail）
After positioning the installation metal part ① of the SPD to DIN rail, push the SPD into DIN rail with arrow direction of ② until the end.



[Removing SPD from DIN rail]

(1) After inserting the flat-blade screw driver to the square hole of the slider ① and tilting it with arrow direction of ②, pull out the slider with arrow direction of ③.
(2) Pull off the SPD from DIN rail with arrow direction of ④, holding the fixing base.



[Installation method to panel or board]

(1)When installing the SPD to panel or board directly,
Loosen the M4 screws of earth terminal on the fixing base and remove the istallation metal part for DIN rail.
(2)Holes must be punched or drilled on panel , and install the fixing base of the SPD
by M4 screws or M4 tapping screws.

Manufacturer

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Agency