

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.



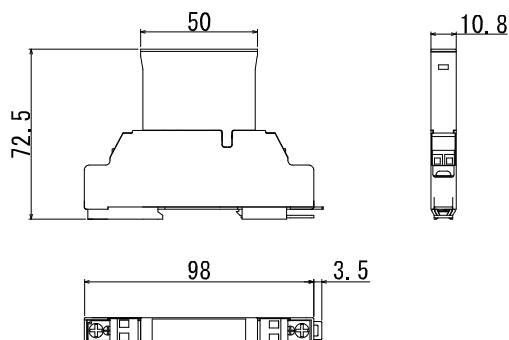
SPN-GV24J



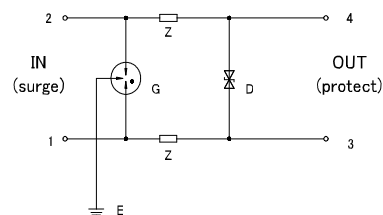
SPN-T170J

- Plug-in Module
- Low voltage protection level
- Easy to replace the protection modules
- No signal disconnection if the protection module is removed
- DIN rail mounted 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 : \leq 60V L-E : \leq 400V	L-L : \leq 115V L-E : \leq 400V	L-L : \leq 400V L-E : \leq 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	\leq 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)	\leq 500pF	\leq 180pF	\leq 200pF
Operating temperature range (Tu)	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C		
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 \times (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



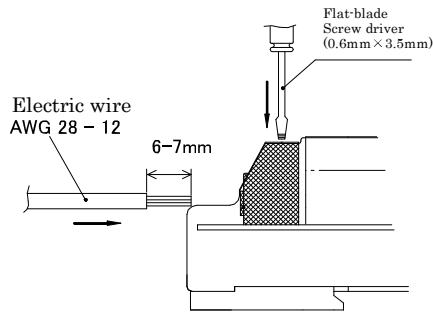
OTOWA web site



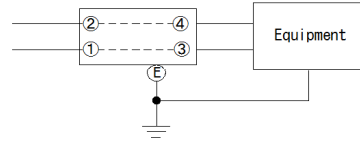
Instruction manual

CAT.No.EN-AS-06`21.10

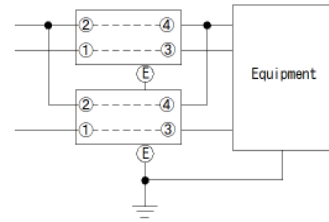
Connection



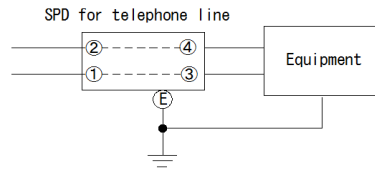
2 lines connection



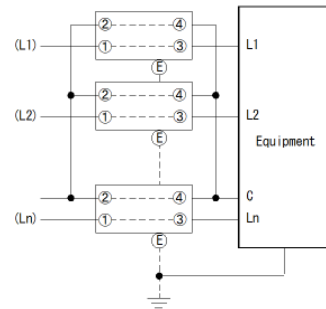
3 lines connection (2 SPDs are used)



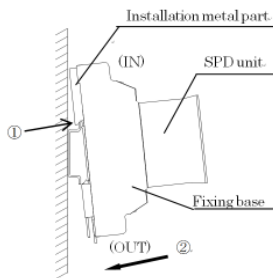
Connection to telephone line



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

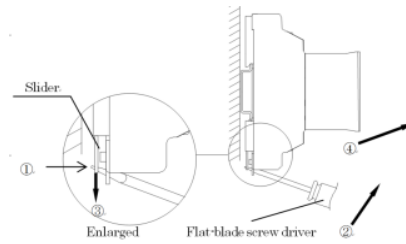


Installing the fixing base



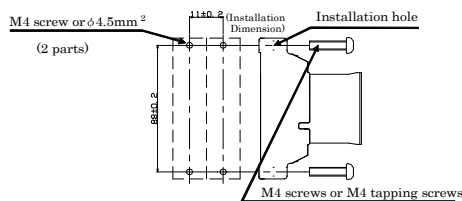
[Installation to DIN rail]

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 installation 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