OTOWA

OTOWA Signal line SPD SRN-GV series for RS485

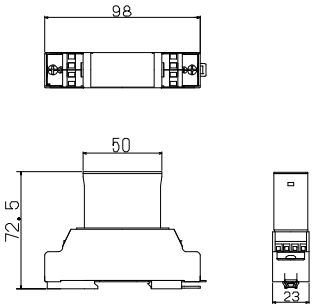
SPD for a wide range of applications, e.g. for balanced four-wire RS485/422 interfaces or temperature sensors. Direct or indirect shield earthing, connection of a signal ground (SG).

- Plug-in Module
- Easy to replace the protection modules
- No signal disconnection if the protection module is removed
- DIN rail mouted device

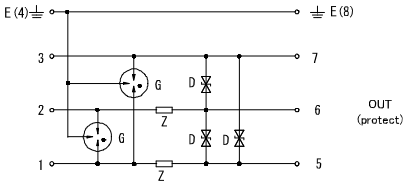
- Terminals for four bus lines and SG
- Direct or indirect shield earthing

Note)
Other Applications
(Adaptable depending on Protected equipment)
SR-GV24J : Intercom line
SR-GV38J : Fire alarm line

Type	SRN-GV5J	SRN-GV12J	SRN-GV24J	SRN-GV38J
SPD Class (Category)	C2 , D1			
Nominal d.c. voltage (Un)	5V	12V	24V	38V
Max. continuous operating d.c. voltage (Uc)	5.5V	12.6V	28.0V	42.0V
Rated current	250mA			
AC Durability	60Hz 0.5A 1sec 5shots			
Voltage protection level C2:8/20μs:5kA D1:10/350μs:2.5kA	L-L : ≦45V L-E : ≦400V	L-L : ≦55V L-E : ≦400V	L-L : ≦150V L-E : ≦400V	L-L : ≦200V L-E : ≦400V
C2 Nominal discharge current (8/20μs)	5kA			
C2 Total Nominal discharge current (8/20μs) (In)	10kA			
D1 Lightning impulse current (10/350μs)	2.5kA			
D1 Total Lightning impulse current (10/350μs) (Iimp)	5kA			
Insertion Loss	≦1.5dB			
Series impedance per line	3.0 ohm(s)			
Cut-off frequency line-line (fG)	≦140MHz (Characteristic impedance 600Ω)	≦ 8MHz (Characteristic impedance 100Ω)	≦80MHz (Characteristic impedance 600Ω)	≦ 35MHz (Characteristic impedance 100Ω)
Typical Capacitancec line-line (at 1MHz, 1Vrms)	≦30pF	≦200pF	≦50pF	≦60pF
Operating temperature range (Tu)	-40℃～ +70℃			
Weight	approx. 90g			
Enclosure material / Color	thermoplastic, UL 94 V-0 / Gray			
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

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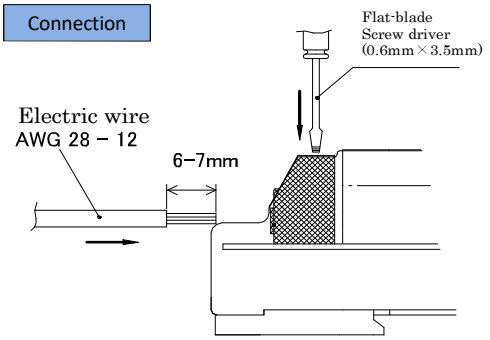
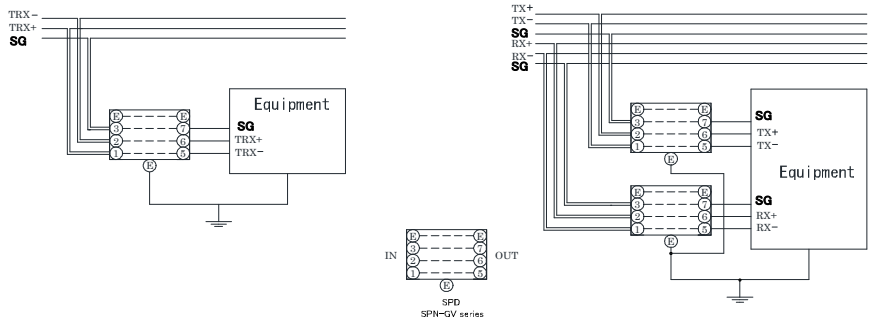
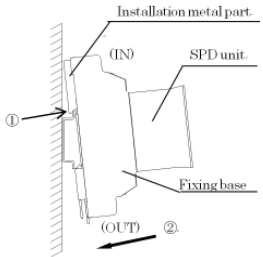
Connection



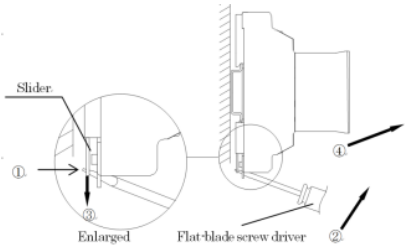


Installing the fixing base



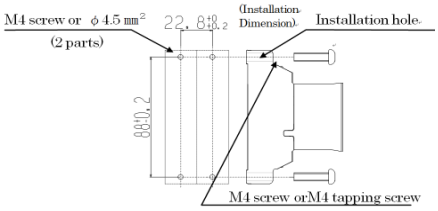
[Installation to DIN rail]

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