

It is recommended that only persons who have sufficient knowledge and experience such as system designers and responsible persons deal with this product after carefully reading the product manual.

**1 The matters of safety**

**⚠ WARNING**

- \* If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- \* Do not let the water touch the product. It may cause electric shock or fire due to malfunction.
- \* When you check or maintain the product, make it sure you turn off the power. It may cause electric shock or fire due to malfunction.
- \* The item should be fixed to the target tightly. Electric discharging or breakage might happen.
- \* Do not use the product at the place where dangerous material such as inflammable or ignitable material exists. This product is not the product of anti-explosive type.
- \* This device is made only for industrial uses. You need to ground the device beforehand. Otherwise, there are in case of malfunction, electric shock, or fire damage.

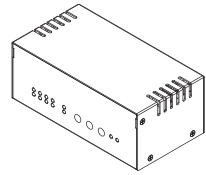
**⚠ CAUTION**

- \* Do not disconnect the controller cable with power applied. There is a possibility of electric shock or malfunction.
- \* Connect wires referring to the product manual. Wrong connection can cause failures.
- \* For your proper cable connection, take a look at the manual 'Installation & Connection' for references. Any disordered connection is detected, the malfunction might arise.
- \* All cables should be connected all the time. Please careful of cable disconnections. If power or communication cables got damaged, replace them immediately. Malfunction and fire danger may happen.
- \* Do not install the device where the vibration can be detected. Any minor impact or vibration on the device, the malfunction or danger of accident might happen.
- \* Do not use the item off the range of usage(Electrostatic elimination). Malfunction or danger of accident may occur.

**2 Check the package contents**

**▶ Product compositions**

The package includes the following products composition.



\* Controller SNC-04 1ea



Extension Cable SCC-NC-1-001 5m / 1~4ea



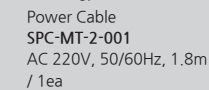
D-Sub Cable SDC-SN-6-001 5m / 25Pin-25Pin / 1ea



Ground Cable SGC-MT-6-001 1m /Ø4-Ø6[mm] / 1ea



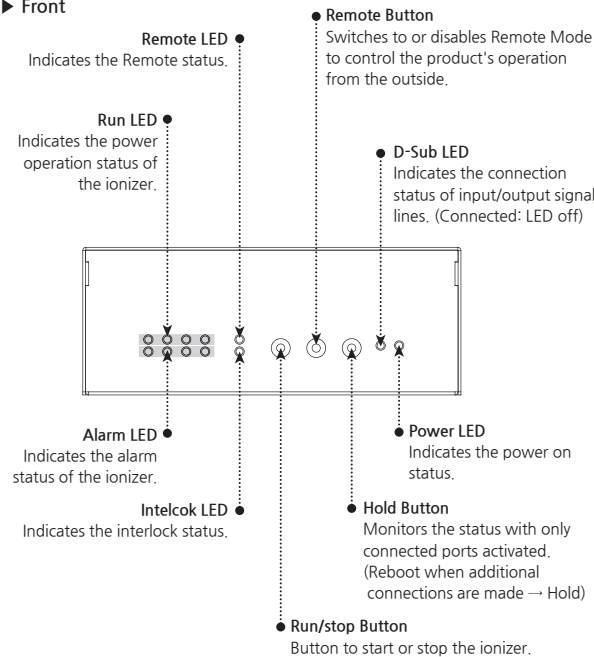
Power Cable SPC-MT-1-001 AC 100V, 50/60Hz, 1.8m / 1ea



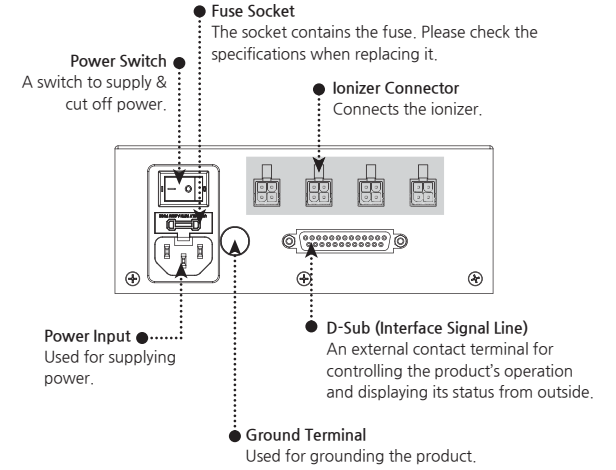
or Power Cable SPC-MT-2-001 AC 220V, 50/60Hz, 1.8m / 1ea

**3 Nomenclatures of parts**

**▶ Front**



**▶ Rear**

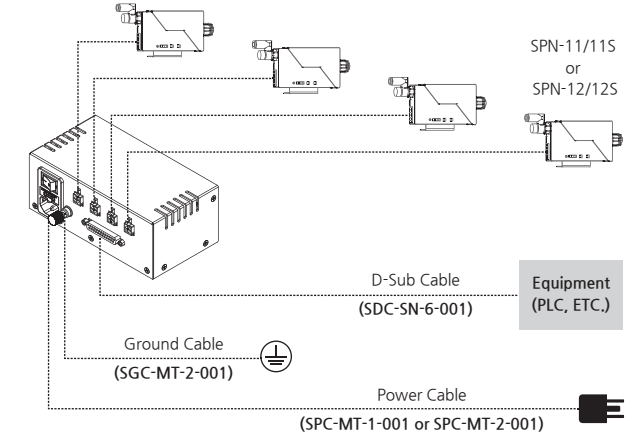


**4 Installation and connection**

**▶ How to connect**

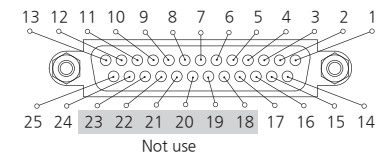
Please assemble the product through a reference image in below.

Connectable Products	SPN-11/11S	SPN-12/12S
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**D-sub (Interface Signal Line)**

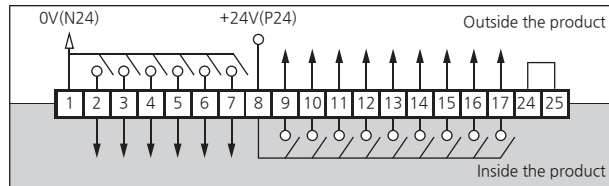
D-Sub 25Pin



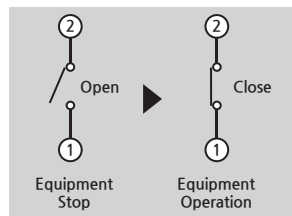
Input/output signal line specifications

<Caution> Please ensure to connect pin 1 and pin 8 after confirming their specifications. Failure to connect may result in malfunction.

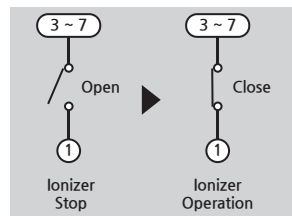
No.	In/Out put	Pin Name	Descriptions	Function
1	-	Input Common(N24)	Input Terminal (External Input): 0V(N24)	Input
2	Input	InterLock IN	InterLock Input	
3	Input	Remote_ALL	All Ports 1, 2, 3, 4 On	
4	Input	Remote_1	Port 1 On	
5	Input	Remote_2	Port 2 On	
6	Input	Remote_3	Port 3 On	
7	Input	Remote_4	Port 4 On	
8	-	Output Common(P24)	Output Terminal (External Input): +24V(P24)	Common External Output
9	Output	Run State	Output when at least one of Ports 1, 2, 3, 4 is On	
10	Output	InterLock Out	InterLock Signal	
11	Output	Alarm (Any)	Alarm output if any Port 1, 2, 3, or 4 has an issue.	
12	Output	Alarm 1	Output when an Alarm occurs on Port 1	
13	Output	Alarm 2	Output when an Alarm occurs on Port 2	
14	Output	Alarm 3	Output when an Alarm occurs on Port 3	
15	Output	Alarm 4	Output when an Alarm occurs on Port 4	
16	Output	Cable Alarm	Output when a Cable Connection Error occurs	
17	Output	Power Alarm	Output when Power is On	
24	Output	D-Sub Alarm	D-Sub Cable State ※ Pins 24-25 internal connection (Caution when making the cable yourself)	
25	Output			



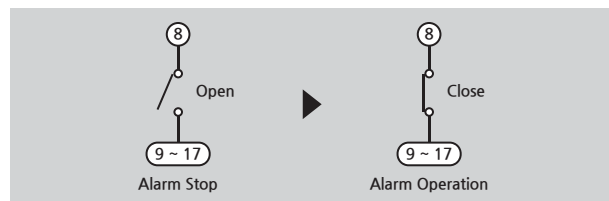
▶ Interlock Input



▶ Remote Input



▶ Alarm Output

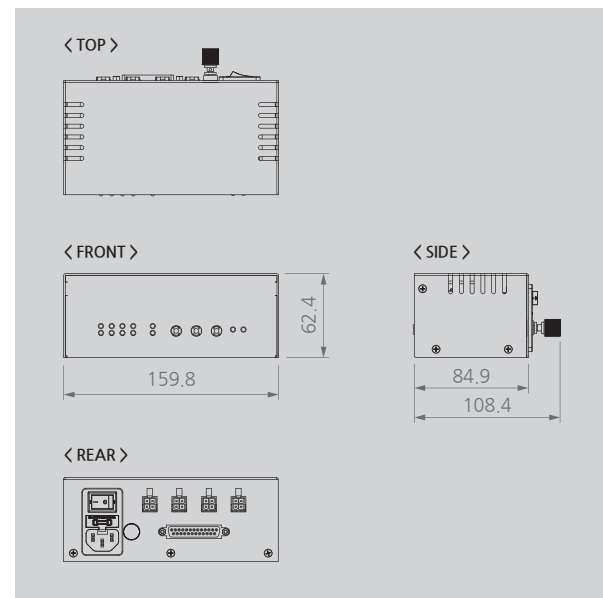


5 Problem solving

▶ Checklist before called

Problem	Identifying Problem	Solution
The product does not work.	Is your power cable still plugged in?	Please re-plug the power cable and then turn the device on again.
	Was the proper voltage level applied for this set-up?	Please use the proper level of power input for the device. (AC 100~220V, 50/60Hz)
	Is the switch off at back of the device?	Turn on the power switch.
There is no ionization.	Does the installed environment have too high/low level of humidity or temperature?	Please install the device upon the proper working specification.
The ionizing performance has been decreased.	Can't possibly ground the device?	Please refer to 'Installation & Connection' for (proper) grounding the device.
	Any damages or cut on the cables?	You need to replace the cables if it gets cut or damaged.

6 Dimensions



7 Specification

Parameter	Description / Value
Input Power	AC 100~240V, 50~60Hz
Power Consumption	7W
Current Consumption	31mA (AC 220V)
Operation Circumstance	0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH
Weight	800g
Material	EGI
Interface	Remote, Interlock, Run Stat, Hold, Alarm (Alarm : H/V Abnormal, Power Cable Abnormal, Extension Cable Abnormal, Controller Off, )
Warranty	1 year

※ The appearance and specification of the product may be changed without prior notice for the improvement of the product.

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