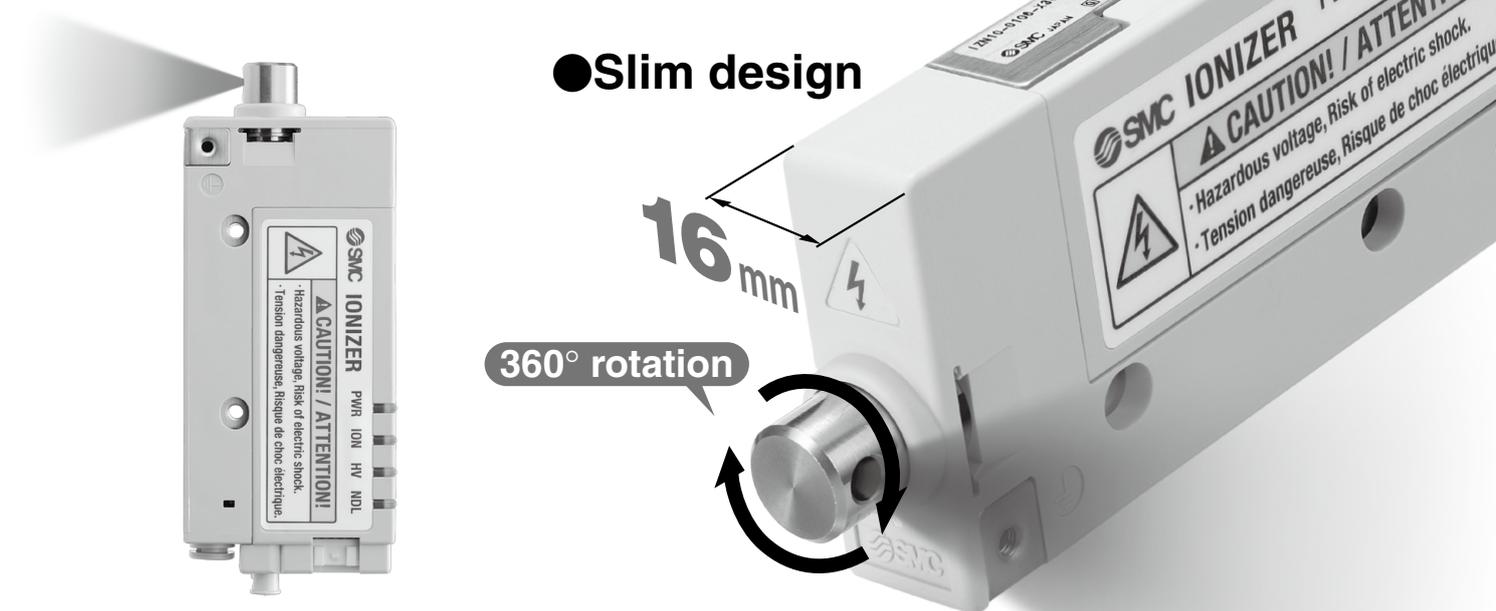


Ionizer/Nozzle Type



Nozzles with right angles added.



2 types of nozzles

* Installation distance: 100 mm

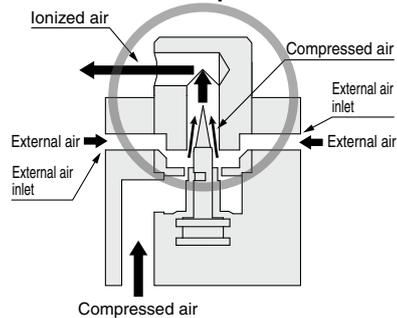
Energy saving static neutralization nozzle with right angles

Short range static neutralization, Design focuses on offset voltage.

Offset voltage: Within $\pm 10\text{ V}^*$

Increases air blow flow rate by external air intake

Static neutralization is possible with minimal air consumption.



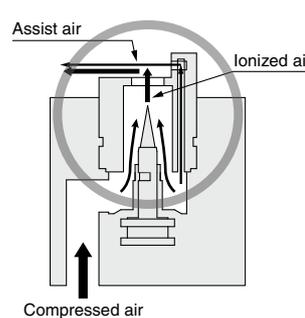
High flow rate nozzle with right angles

Long range static neutralization and dust removal

Ionized air assisted by the compressed air

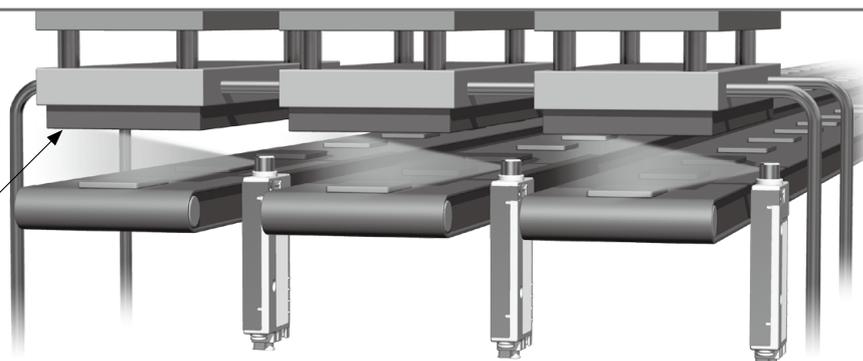
- Improved dust removal performance by the energy of compressed air.
- Suitable for static neutralization at a long distance (max. 500 mm).

Offset voltage: Within $\pm 30\text{ V}^*$



Static neutralization from narrow conveyor space

Obstacle at upper portion of equipment



IZN10-X367



Ionizer/Nozzle Type With Right Angles **IZN10-X367**



How to Order

IZN10 - **01** **06** - - **X367**

Nozzle type

Symbol	Type
01	Energy saving static neutralization nozzle
02	High flow rate nozzle

Output specification

Nil	NPN output
P	PNP output

Port size

06	ø6: Metric size
07	ø6.35 (1/4"): Inch size
16	ø6: Metric size (Elbow)
17	ø6.35 (1/4"): Inch size (Elbow)

Bracket

Nil	Without bracket
B1	With L-bracket
B2	With pivoting bracket
B3	With DIN rail mounting bracket

Power supply cable

Nil	With power supply cable (3 m)
Z	With power supply cable (10 m)
N	Without power supply cable

• With right angles

Specifications

Ionizer model	IZN10-□□□□-□-X367 (NPN specification)	IZN10-□P□□-□-X367 (PNP specification)
Ion generation method	Corona discharge type	
Method of applying voltage	High frequency AC type	
Applied voltage <small>Note 1)</small>	2.5 kVAC	
Offset voltage <small>Note 2)</small>	Energy saving static neutralization nozzle	Within ±10 V
	High flow rate nozzle	Within ±30 V
Ozone generation <small>Note 3)</small>	0.03 ppm (0.05 ppm for energy saving static neutralization nozzle)	
Air purge	Fluid	Air (Clean dry air)
	Operating pressure range <small>Note 4)</small>	0.05 MPa to 0.7 MPa
	Connecting tube size	ø6, ø1/4 inch
Power supply voltage	24 VDC ±10%	
Current consumption	80 mA or less	
Input signal	Discharge stop signal	Connected to GND (ON voltage: 0.6 V or less) Current consumption: 5 mA or less
	Reset signal	
	External switch signal	
Output signal	Discharge signal	Max. load current: 40 mA Residual voltage: 1 V or less (load current at 40 mA) Max. applied voltage: 28 VDC
	Error signal	
	Maintenance signal	
Effective static neutralization distance	20 mm to 500 mm	
Ambient and fluid temperature	0 to 55°C	
Ambient humidity	35 to 65%Rh	
Material	Housing: ABS, Stainless steel Nozzle: Stainless steel Electrode needle: Tungsten	
Impact resistance	10 G	
Weight	120 g	
Standards/Directive	CE (EMC Directive: 2004/108/EC)	

Note 1) Measured with a probe of 1000 MΩ and 5 pF.

Note 2) Measured with a distance of 100 mm between the charged object and an ionizer at an air purge pressure of 0.3 MPa.

For the discharge time, refer to technical data on back cover.

Note 3) Value above background level, measured with a distance of 300 mm from the air blow port at an air purge pressure of 0.3 MPa.

Note 4) Static electricity cannot be neutralized without air purge.

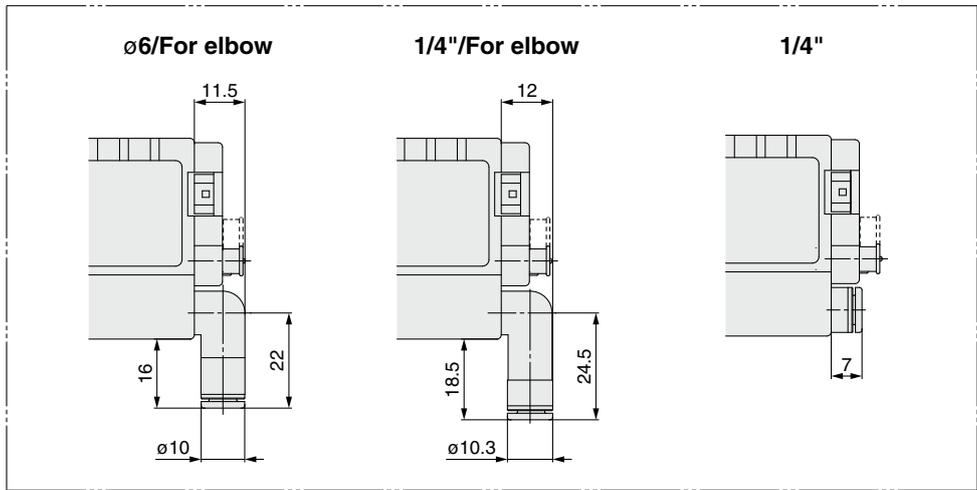
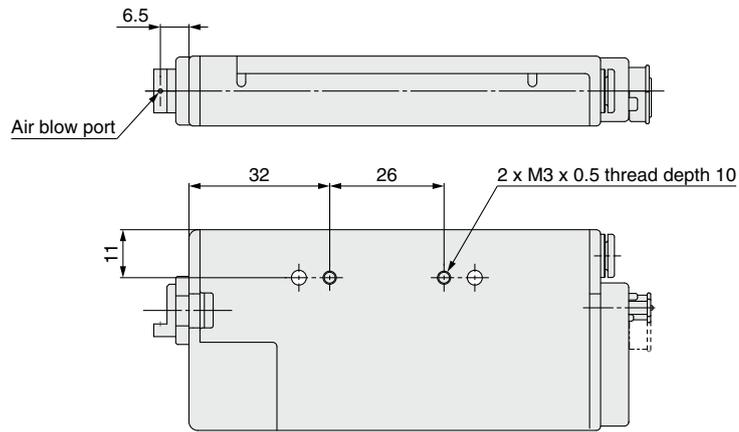
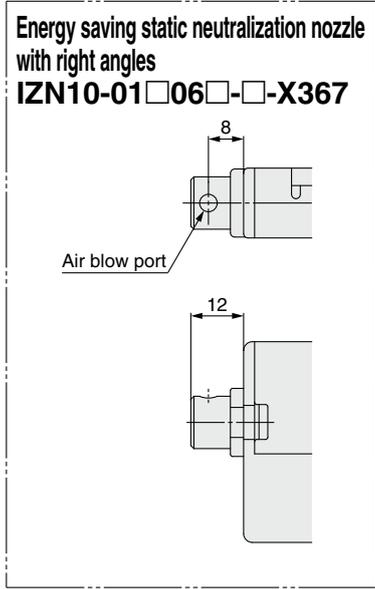
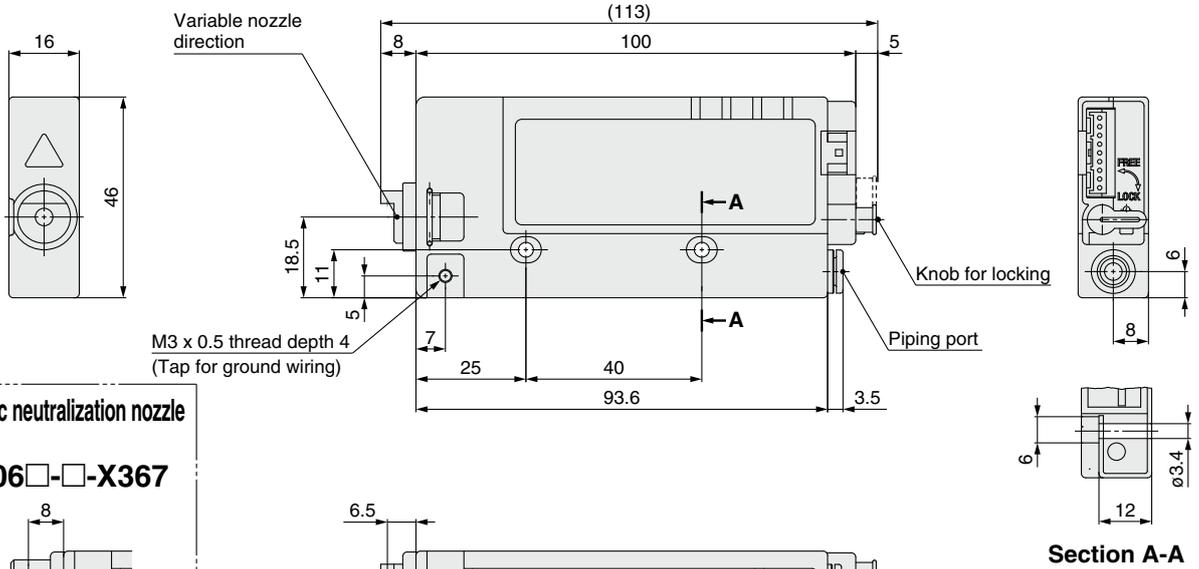
Also, failure of air purge can increase internal ozone condensation, adversely affecting the ionizer and peripheral equipment. Be sure to perform air purge while energizing the ionizer.

When the air purge is stopped temporarily during operation of the ionizer, the discharge is stopped with the discharge stop signal input turned OFF to avoid increase in internal ion concentration.



Dimensions

High flow rate nozzle with right angles
IZN10-02□06□-□-□-X367



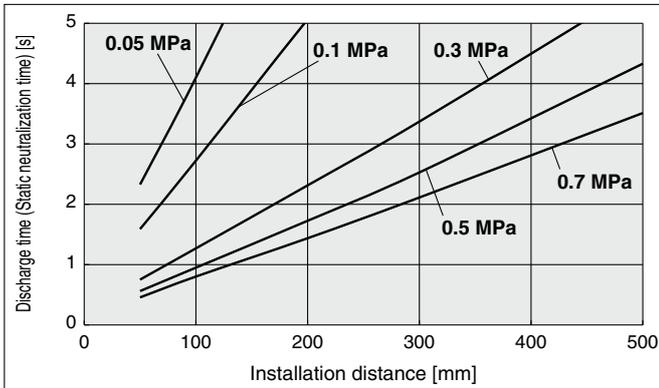
Refer to the **WEB catalog** for dimensions of the model with bracket.

IZN10-X367

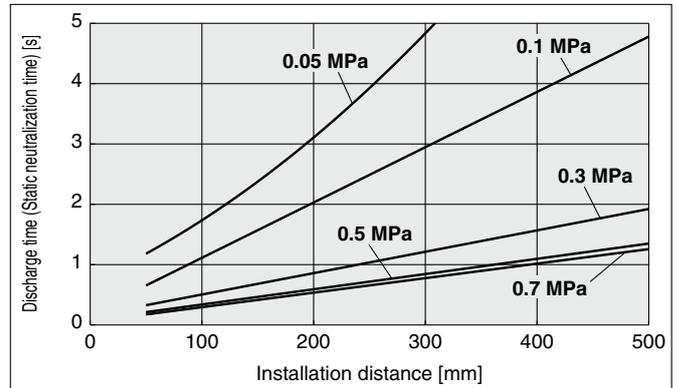
Static Neutralization Characteristics (Discharge Time from 1000 V to 100 V)

Note) Static neutralization features are based on the data using the charged plate (size: 150 mm x 150 mm, capacitance: 20 pF) as defined in the U.S. ANSI standards (ANSI/ESD STM3.1-2006). Use this as a guideline purpose only for model selection because the value varies depending on the material and/or size of a subject.

① Energy saving static neutralization nozzle with right angles: IZN10-01-X367



② High flow rate nozzle with right angles: IZN10-02-X367



Flow-rate Characteristics

① Energy saving static neutralization nozzle with right angles: IZN10-01-X367

② High flow rate nozzle with right angles: IZN10-02-X367

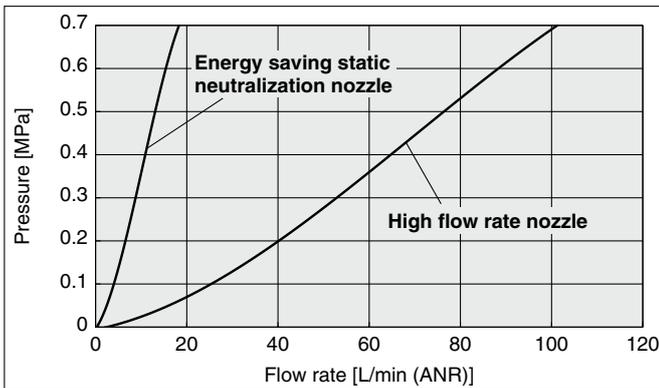
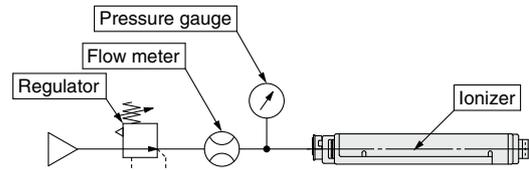


Fig. 1: Flow-rate characteristics measuring circuit



Other specifications are the same as the standard type. Refer to the **WEB catalog** for details.

⚠ Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.