

Ionizer/Nozzle Type



Nozzles with right angles added.



● Slim design

16 mm

360° rotation



● 2 types of nozzles

* Installation distance: 100 mm

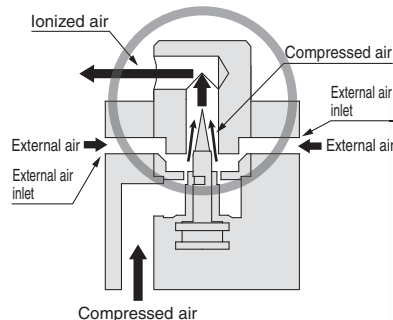
Energy saving static neutralisation nozzle with right angles

Short range static neutralisation, Design focuses on offset voltage.

Offset voltage: Within ± 10 V*

Increases air blow flow rate by external air intake

Static neutralisation is possible with



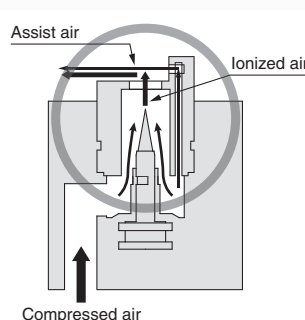
High flow rate nozzle with right angles

Long range static neutralisation and dust removal

Ionized air assisted by the compressed air

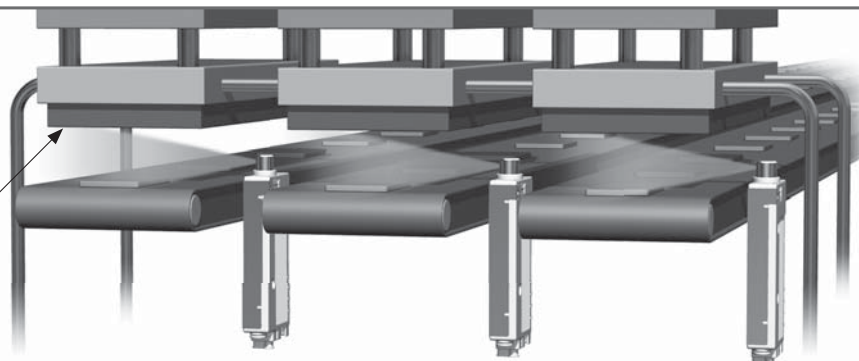
- Improved dust removal performance by the energy of compressed air.
- Suitable for static neutralisation at a long distance (max. 500 mm).

Offset voltage: Within ± 30 V*



Static neutralisation from narrow conveyor space

Obstacle at upper portion of equipment



IZN10-X367



14-EU625-UK

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



How to Order



IZN10-01 P 06 - - X367

Nozzle type

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

Output specification

—	NPN output
P	PNP output

Port size

06	Ø 6: Metric size
07	Ø 6.35 (1/4"): Inch size
16	Ø 6: Metric size (Elbow)
17	Ø 6.35 (1/4"): Inch size (Elbow)

With right angles

Bracket

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

Power supply cable

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

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 neutralisation 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 neutralisation 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	Ø 6, Ø 1/4 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	Connected to +24 V (ON voltage: Between +19 V and power supply voltage) Current consumption: 5 mA or less (OFF voltage: 0.6 V 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	Max. load current: 40 mA Residual voltage: 1 V or less (load current at 40 mA)
	Error signal		
	Maintenance signal		
Effective static neutralisation 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.

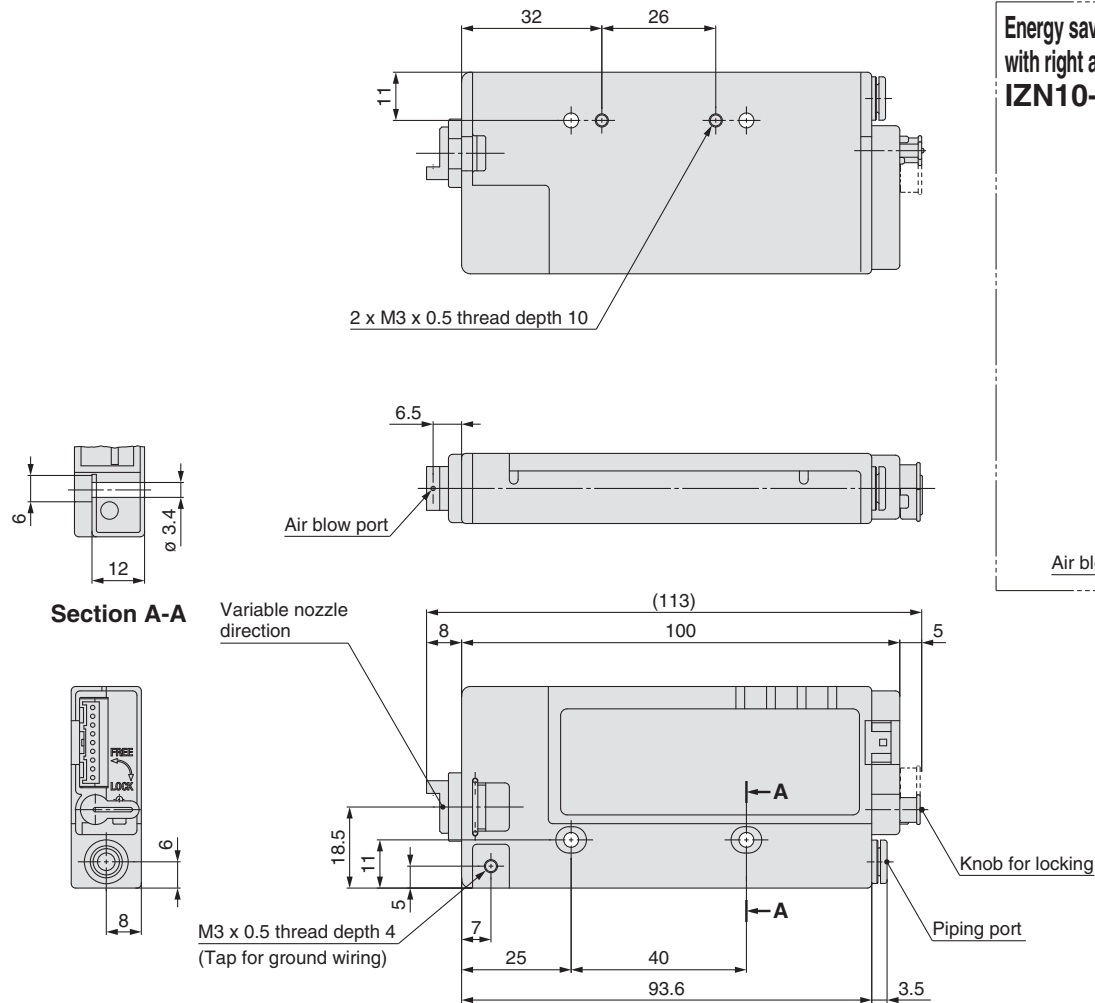
Note 4) Static electricity cannot be neutralised without air purge.

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

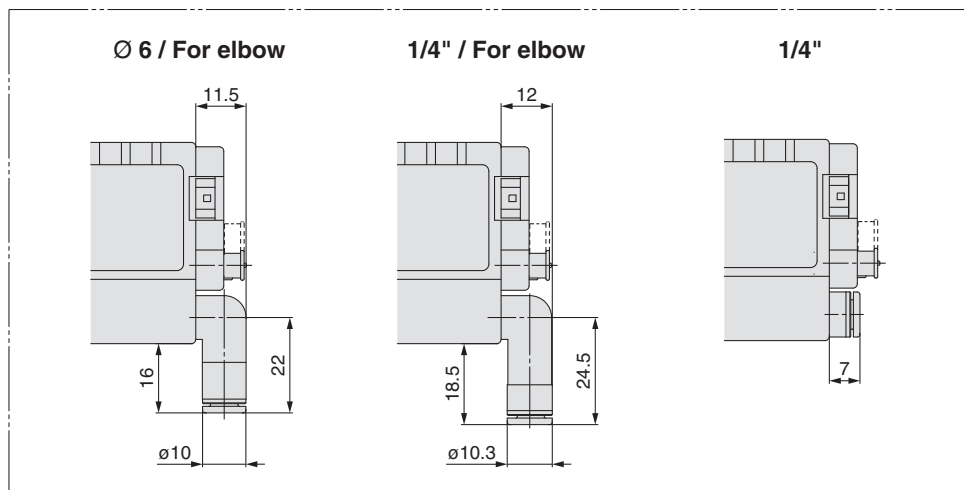
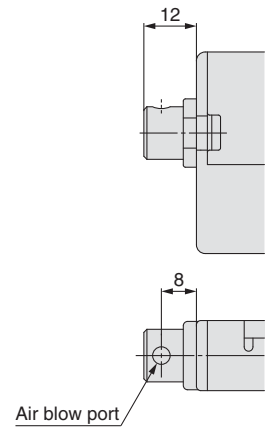
When the air purge is stopped temporarily during operation of the ionizer, the discharge is stopped with the discharge stop signal input turned OFF to avoid increase in internal ion concentration.

Dimensions

High flow rate nozzle with right angles IZN10-02P06□-□-X367



Energy saving static neutralisation nozzle with right angles IZN10-01P06□-□-X367



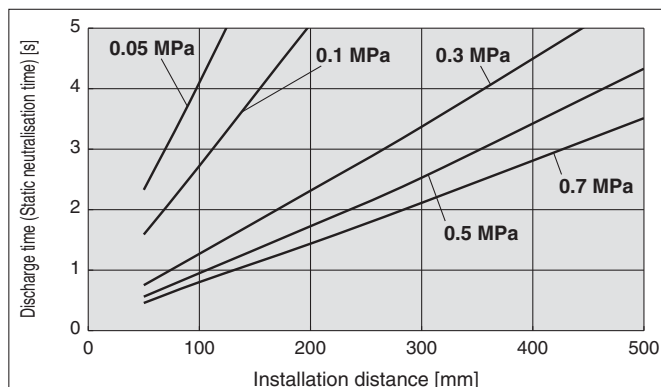
Refer to the catalogue on www.smc.eu for dimensions of the model with bracket.

IZN10-X367

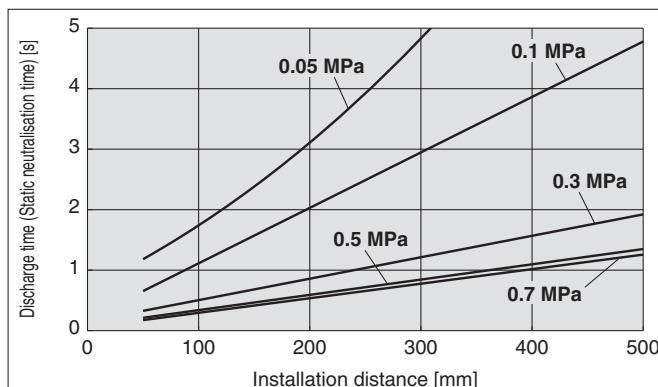
Static Neutralisation Characteristics (Discharge Time from 1000 V to 100 V)

Note) Static neutralisation characteristics are based on data using charged plate (size: 150 mm x 150 mm, capacitance: 20 pF) as defined in the EN 61340-5-1:2007 standards. Use only as a guideline for model selection because the value varies depending on the material and/or size of objects.

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



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



Flow-rate Characteristics

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

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

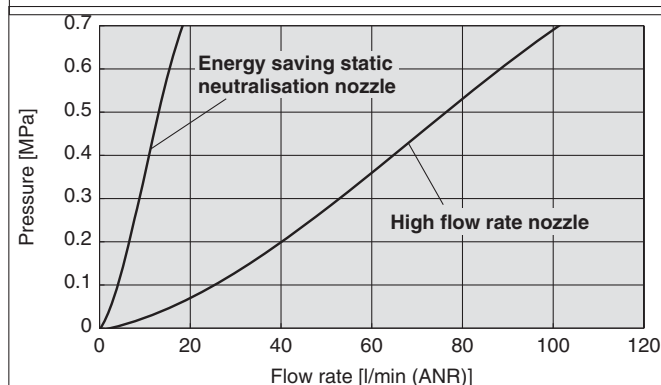
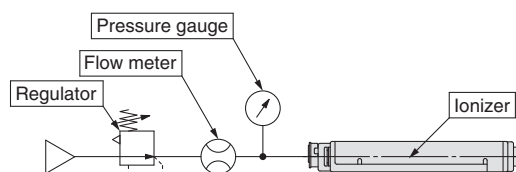


Fig. 1: Flow-rate characteristics measuring circuit



Other specifications are the same as the standard type. Refer to the catalogue on www.smc.eu for details.



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