



**And see the gain**  
Ionizers

Quick Overview



# Ionizers

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## And see the gain

“The invisible enemy”. “The unseen”. These are just a few ways to call and define static electricity.

Unfortunately, static is not like an air leakage that you can hear. Static is indeed invisible, but its effects can certainly be seen. In our visits to customers premises, no matter if they are big, medium or small production plants, we often encounter many locations suffering from the effects of static. Plastic tubes actually levitating, plastic wraps all twisted, or very unstable packaging processes due to clinging bottles.

Unfortunately in many occasions, unseen means untackled. Luckily, static can be solved in a very quick, easy and efficient way: with an ionizer.

Implementing an ionizer does not imply complicated installation or maintenance. Basically, you must simply find the right one, plug it in, and forget about annoying unplanned stops, messy products or jolts. Simplicity & effectiveness: that is the motto of our product range.

With SMC's Ionizers you will:

- **Forget about product rejections, futile maintenance hours and machine downtime provoked by static electricity** – plug it in and see the benefits right away

- **Optimize the quality of your process** – the installation of the appropriate solution will increase production speed and improve output quality in a simple way.

- **Create a safe environment for your workers** – eliminate jolts produced by static.

- **Guarantee getting the proper anti-static solution** – a wide range for measurement, removal and control of static electricity is at your disposal.

“If only all problems could be solved so easily.

Simplicity & effectiveness: that is the motto of our product range.”

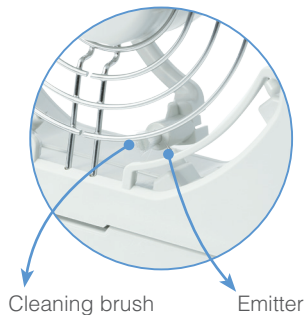


# General specifications

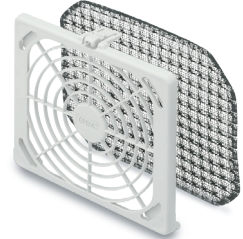
## IZF Series

- **Ion balance:**  $\pm 5$  V or  $\pm 13$  V.  
(Depends on series).
- **Effective electricity elimination distance:** 50 to 1600 mm.  
(Depends on series)

### Automatic cleaning function (IZF21/31)



### Filter (IZF21/31)



### Flow Rate Adjustment Function (Depends on series)



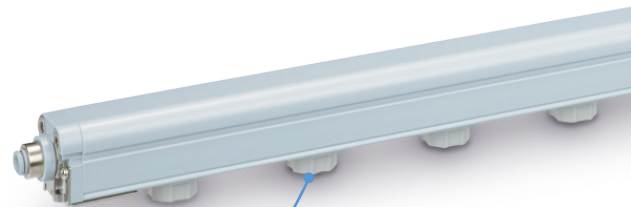
### 7 types of alarms (Depends on series)

## IZS40/41/42 Series

- **Ion balance:**  $\pm 30$  V ( $\pm 25$  V IZS42).
- **Effective electricity elimination distance:** 50 to 2000 mm.
- **Voltage application method:** DC, AC, Sensing AC and Dual AC.  
(Depends on series)

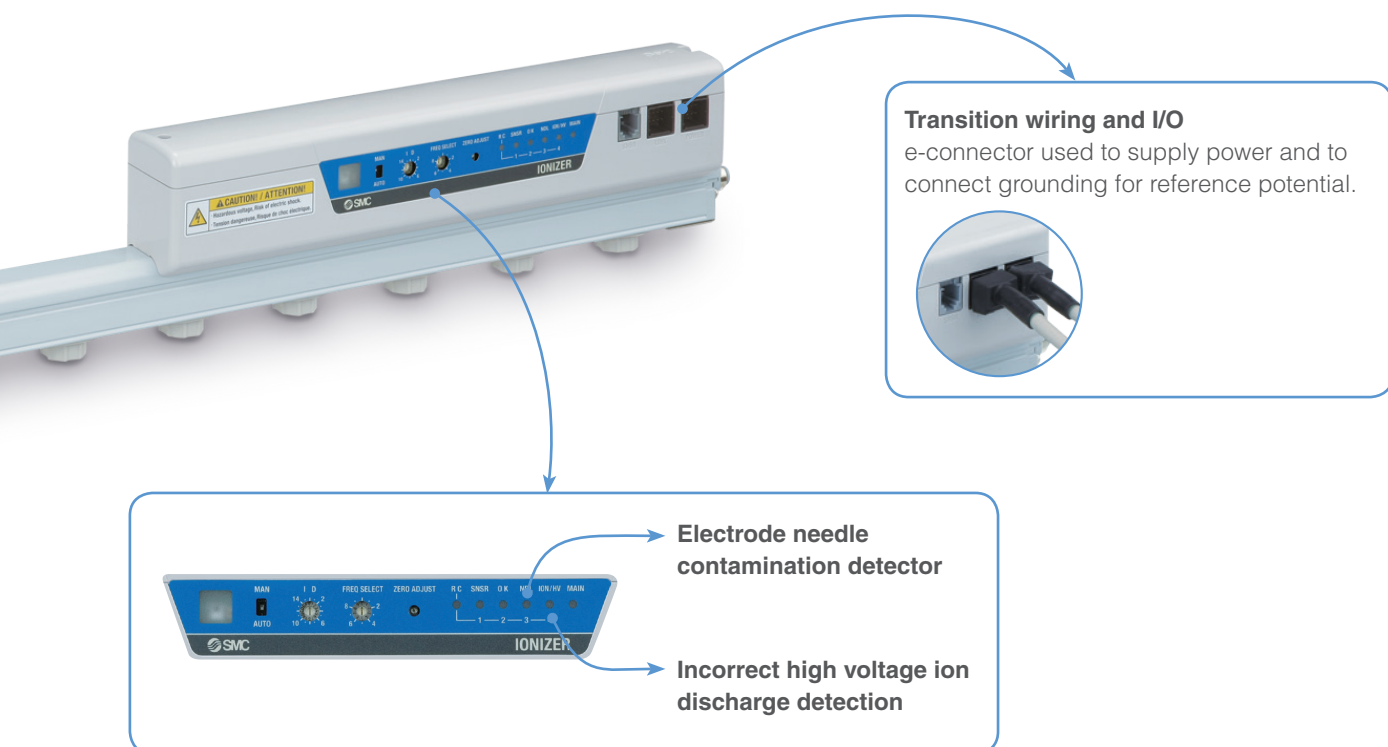
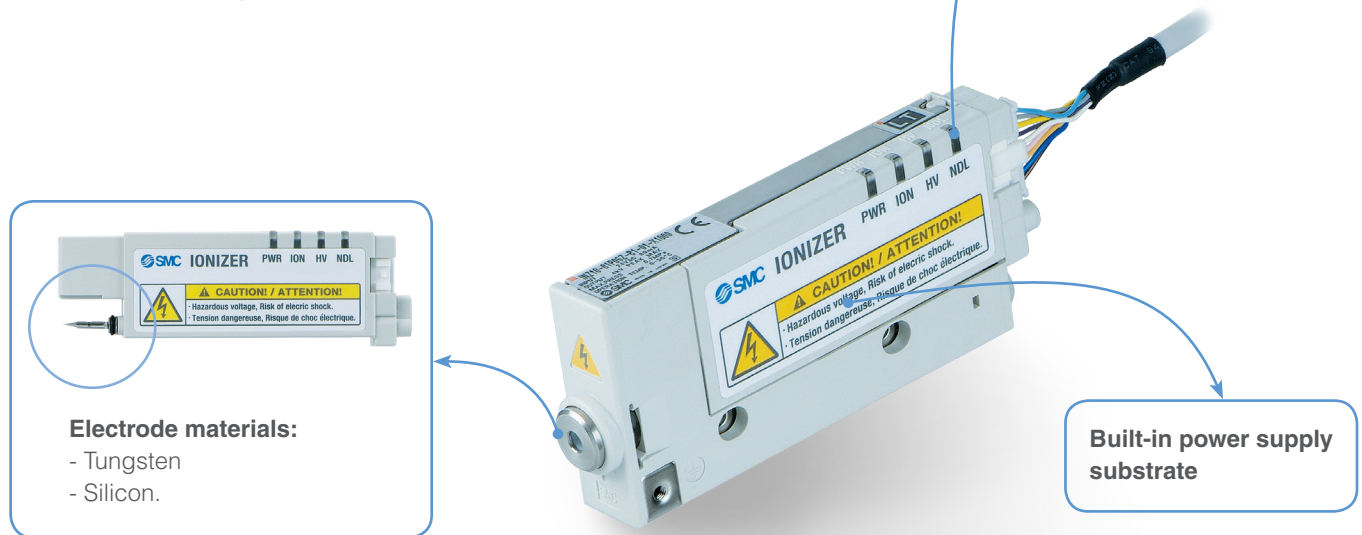
### Low maintenance electrode cartridges.

Minimises contamination of electrode needles by discharging compressed air at the surface of the needles.  
Two types of electrode needle materials available: tungsten and single crystal silicon








## IZN10 Series

- ▶ **Ion balance:**  $\pm 10$  V or  $\pm 15$  V.  
(Depends on series and sizes).
- ▶ **Effective electricity elimination distance:** 20 to 500 mm.



# Static electricity elimination equipment lineup

		Features	Ion generation method	Ion balance [V]	Flow rate [l/min]
Bar type ionizer, IZS series					
IZS40		<ul style="list-style-type: none"><li>- Effective and efficient in the rapid elimination of static</li><li>- Built-in, high accuracy and feedback sensors</li><li>- Energy saving and high speed de-ionizing cartridges</li><li>- Low maintenance electrode cartridges</li><li>- Electrostatic removal from flat surfaces and remote surfaces</li><li>- Suitable for applications in all industries</li></ul>	Corona discharge	±30	300 (High-speed) <sup>1)</sup> 156 (Energy saving) <sup>1)</sup>
IZS41					
IZS42				±25	
Fan type ionizer, IZF series					
IZF10		<ul style="list-style-type: none"><li>- Compact and lightweight</li><li>- Flow rate adjustment function</li><li>- Electrostatic removal in the atmosphere around a work piece</li><li>- Operates without the need of a compressed air supply</li><li>- Suitable for applications in all industries</li></ul>	Corona discharge	±13	IZF10: 660 IZF10L: 460
IZF10R				±13	190 to 800
IZF21/31				±5	IZF21: 400 to 1800 IZF31: 1300 to 4400
Nozzle type ionizer, IZN series					
IZN10		<ul style="list-style-type: none"><li>- Slim design</li><li>- Built-in power supply substrate</li><li>- Energy saving and large flow nozzles</li><li>- Removal from a small work piece or total electrostatic removal in confined spaces. Suitable for dust removal.</li><li>- Suitable for applications in all industries</li></ul>	Corona discharge	±10 (Energy saving) ±15 (Large flow)	5 to 45 (0.1 MPa)

1) These values have been calculated with a bar length of 1120 mm and an inlet pressure of 0.3 MPa (relative pressure).

Effective electricity elimination distance [mm]	Discharge output [kV]	Power supply voltage	Temperature range [°C]	Electrode material	Others
50 to 2000	±7	24 VDC ±10 %	0 to 40	Tungsten Silicon	<ul style="list-style-type: none"><li>- Transition wiring (up to 8 units)</li><li>- Remote control</li><li>- High charge error</li><li>- Electrode needle contamination detector</li><li>- Ion balance adjustment</li><li>- I/O signals (PNP/NPN)</li><li>- LED indicators</li><li>- Electrode cartridge drop prevention function</li><li>- Drop prevention cover</li><li>- Electrode needle cleaning kit</li><li>- Non-standard bar length</li></ul>
	±6				
300 to 1200	±5	24 VDC ±10 %	0 to 50 (Operation) -10 to 60 (Storage)	Tungsten	<ul style="list-style-type: none"><li>- Built-in emitter cleaner (Option)</li><li>- Fan air filter (Optional)</li><li>- Power supply failure alarm</li><li>- Incorrect high voltage alarm</li><li>- Fan motor failure alarm</li><li>- CPU failure alarm</li><li>- Maintenance alarm</li><li>- Emitter cartridge mounting failure alarm</li><li>- Automatic cleaning failure alarm</li><li>- Electrode needle cleaning kit</li></ul>
50 to 1600					
20 to 500	±2.5	24 VDC ±10 %	0 to 55	Tungsten Silicon (Available as special)	<ul style="list-style-type: none"><li>- 360° turnable nozzle</li><li>- External switch input function (2 inputs):<ul style="list-style-type: none"><li>· Detection of pressure drop of compressed air</li><li>· Energy saving with electrostatic sensor</li></ul></li><li>- Electrode needle cleaning kit</li></ul>

# Bar type ionizer

## IZS40/41/42 Series



3 solutions for fast and effective static removal




















### Main features

- ▶ **Standard type Series IZS40**  
Simple operation: Only power ON/OFF required.
- ▶ **Feedback sensor type Series IZS41**  
Feedback sensor enables the rapid elimination of static electricity.
  - Energy saving run mode
  - Continuous neutralisation run mode.
- ▶ **Dual AC type Series IZS42**  
Reduced potential amplitude: 25 V or less.
- ▶ **Ion balance:  $\pm 30$  V**
- ▶ **Reduction of adjustment and maintenance time using an auto balance sensor:**
  - Built-in type (standard): The sensor is installed within the ionizer body and may be mounted anywhere
  - High accuracy type (option): "Ion balance adjustment at external signal input" or "Ion balance adjustment at any time" can be selected.
- ▶ **Setting ionizer with remote control: can recognize and control up to 16 ionizers through address setting**
- ▶ **Low maintenance electrode cartridges**
- ▶ **Transition wiring may be used**

### Selected part numbers

● Stocked items

Part number	Characteristics	Bar Length [mm]	Input Signal	Output Signal	Operating Range [mm]
IZS40-340-06B 	Plug & Play	340	—	—	50 ~ 2000
IZS40-400-06B 		400			
IZS40-460-06B 		460			
IZS40-580-06B 		580			
IZS40-640-06B 		640			
IZS40-820-06B 		820			
IZS40-1120-06B 		1120			
IZS40-1300-06B 		1300			
IZS40-1600-08B 		1600			
IZS40-1900-08B 		1900			
IZS40-2320-08B		2320			
IZS40-2500-08B		2500			
IZS41-340P-06B 	Applicable for feedback sensor	340	2 x PNP	2 x PNP	
IZS41-400P-06B 		400			
IZS41-460P-06B 		460			
IZS41-580P-06B 		580			
IZS41-640P-06B 		640			
IZS41-820P-06B 		820			
IZS41-1120P-06B 		1120			
IZS41-1300P-06B 		1300			
IZS41-1600P-08B 		1600			
IZS41-1900P-08B 		1900			
IZS41-2320P-08B		2320			
IZS41-2500P-08B		2500			



● Stocked items

Part number	Characteristics	Bar Length [mm]	Input Signal	Output Signal	Operating Range [mm]
<b>IZS42-340P-06B</b> ●	Potential amplitude reduction specification	340	2 x PNP	2 x PNP	50 ~ 2000
<b>IZS42-400P-06B</b> ●		400			
<b>IZS42-460P-06B</b> ●		460			
<b>IZS42-580P-06B</b> ●		580			
<b>IZS42-640P-06B</b> ●		640			
<b>IZS42-820P-06B</b> ●		820			
<b>IZS42-1120P-06B</b> ●		1120			
<b>IZS42-1300P-06B</b> ●		1300			
<b>IZS42-1600P-08B</b> ●		1600			
<b>IZS42-1900P-08B</b> ●		1900			
<b>IZS42-2320P-08B</b>		2320			
<b>IZS42-2500P-08B</b>		2500			

1) Incl. 3 m power supply cable and bracket.

2) Non-standard bar length available upon request, with -X10 option.

## Accessories

● Stocked items

Part number	Description
<b>IZS30-M2</b> ●	Electrode needle cleaning kit
<b>IZS41-RC</b> ●	Remote control
<b>IZS41-CF02</b> ●	Transition wiring cable (2 m)
<b>IZS40-NT</b> ●	High speed de-ionizing cartridge (tungsten)
<b>IZS40-NJ</b> ●	Energy saving - type de-ionizing cartridge (tungsten)
<b>IZS40-E3</b> ●	Electrode cartridge drop prevention cover for 3 electrodes
<b>IZS40-E4</b> ●	Electrode cartridge drop prevention cover for 4 electrodes
<b>IZS40-E5</b> ●	Electrode cartridge drop prevention cover for 5 electrodes
<b>IZF10-CG2EU</b>	AC Adapter for IZS40
<b>IZS41-CG2EU</b>	AC Adapter for IZS41/42
<b>IZS40-BE</b> ●	End bracket
<b>IZS40-BM</b> ●	Intermediate bracket
<b>IZS31-DF</b> ●	Feedback sensor
<b>IZS31-DG</b> ●	Auto balance sensor

# Fan type ionizer

## IZF Series



*Fast static removal in your hands*



## IZF21/31 Series main features

- ▶ **Extensive and rapid static neutralisation**
- ▶ **Ion balance:  $\pm 5$  V**
- ▶ **Optional adjustable louver to adjust the static neutralisation area**
- ▶ **Improved performance and easier maintenance through several functions and features:**
  - Functions: averaging function, automatic balance adjustment function, optional automatic cleaning function, flow rate adjustment function
  - Tool-less replaceable emitter cartridge
  - Optional filter to prevent the entry of foreign matter to the motor and to avoid short-circuit between emitters.
- ▶ **Modular, compact and slim design**

## Selected part numbers

● Stocked items

Part number	Flow rate [l/min]	Input/Output
IZF21-P ●	400 to 1800	PNP
IZF31-P ●	1300 to 4400	

1) Included 3 m power supply. AC adapter, bracket, automatic cleaning unit, louver and filter not included.

2) NPN option available upon request.

## Accessories

● Stocked items

Part number		Description
IZF21	IZF31	
IZF21-NT ●	IZF31-NT ●	Emitter cartridge
IZS41-CP ●		Power supply cable (3 m)
IZS41-CPZ ●		Power supply cable (10 m)
IZF21-CG2EU		AC adapter (with AC cord)
IZF21-CG2 ●		AC adapter (without AC cord)
IZF21-HW ●	IZF31-HW ●	Adjustable louver
IZF21-B1 ●	IZF31-B1 ●	Bracket
IZF21-HS ●	IZF31-HS ●	Automatic cleaning unit
IZF21-FL	IZF31-FL	Air suction side filter: filter
IZF21-FU ●	IZF31-FU ●	Air suction side filter: filter + filter holder
IZF21-M3	IZF31-M3	Cleaning arm (for automatic cleaning unit)
IZS30-M2 ●		Cleaning kit
IZS30-M1 ●		Adjustment screwdriver

## IZF10/10R Series main features

- ▶ **Rapid static neutralisation**
- ▶ **Two types available (IZF10):**  
Fast elimination of static electricity type: 1.5 seconds deionising time.  
Low noise fan type: 48 dB(A).
- ▶ **Flow rate adjustment function (IZF10R)**
- ▶ **Ion balance:  $\pm 13$  V**
- ▶ **Alarm functions: high-voltage error, electrode needle contamination detector**

## Selected part numbers

● Stocked items

Part number	Nozzle type	Flow rate [l/min]	Output
<b>IZF10-P</b> ●	Rapid deionising type	660	PNP
<b>IZF10-LP</b> ●	Low noise type	460	
<b>IZF10R-P</b>	—	190 to 800	

1) Power supply cable (3 m) included. AC adapter, bracket and e-connector not included.

2) NPN option available upon request.

## Accessories

● Stocked items

Part number		Description
IZF10	IZF10R	
<b>IZF10-CP</b> ●	<b>IZF10R-CP</b>	Power supply cable (3 m)
<b>IZF10-CPZ</b> ●	<b>IZF10R-CPZ</b>	Power supply cable (10 m)
<b>IZF10-CG2EU</b>	<b>IZF10R-CG2EU</b>	AC adapter (with AC cord)
<b>IZF10-CG2</b> ●	<b>IZF10R-CG2</b>	AC adapter (without AC cord)
<b>IZF10-B1</b> ●		Bracket
<b>IZF10-A1</b> ●	<b>IZF10R-A1</b>	Cartridge case
<b>ZS-28-C</b> ●	—	E-con connector
<b>IZS30-M2</b> ●		Cleaning kit
<b>IZS30-M1</b> ●		Adjustment screwdriver

# Nozzle type ionizer

## IZN10 Series



Efficient local static removal



### Main features

#### ► Different nozzles to adapt several applications

Available either as IZN10 (standard type) and IZN10-X367 (with right angles and 360° rotation): Energy saving static electricity elimination nozzle.

High flow static electricity elimination nozzle.

#### ► Ion balance: $\pm 10$ V (Energy saving), $\pm 15$ V (Large flow)

#### ► Compact and slim design

#### ► With built-in power supply substrate

#### ► Easy maintenance: electrode needle contamination detector with easy replacement of the cartridge

#### ► Mounting variations: direct mount, bracket mount

#### ► External switch input function (2 inputs). Switch output: PNP/NPN.

### Selected part numbers

● Stocked items

Part number	Nozzle type	Port size	Output specification
IZN10-01P06 ●	Energy saving static electricity elimination nozzle	Ø 6 (metric size)	PNP
IZN10-02P06 ●	High flow rate nozzle		
IZN10-11P06 ●	Rc1/8 female threads for piping		
IZN10-01P06-X367 ●	Energy saving static electricity elimination nozzle		
IZN10-02P06-X367 ●	High flow rate nozzle		

1) Included 3 m power supply cable.

2) NPN option available upon request.

### Accessories

● Stocked items

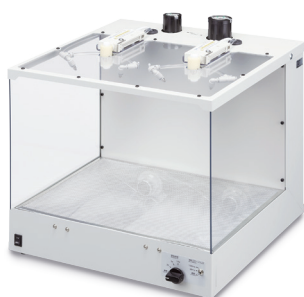
Part number	Description
IZN10-B1 ●	L Bracket
IZN10-B2 ●	Pivoting bracket
IZN10-B3 ●	Din rail mounting bracket
IZN10-CP ●	Power supply cable (3 m)
IZN10-CPZ ●	Power supply cable (10 m)
IZN10-NT ●	Electrode needle assembly
IZS30-M2 ●	Electrode needle cleaning kit



# Other static electricity elimination equipment



## Desktop duster box – ZVB Series



- ▶ Integration of three processes – static neutralisation, dust removal and dust collection – in a single box by using nozzle type ionizers
  - Efficient static neutralisation with a diffusion-type nozzle
  - Dust removal with dedicated nozzles for the air blow
  - Dust collection with a maintenance-free pneumatic dust collector.
- ▶ Ion balance:  $\pm 10$  V
- ▶ Use of emitters that are easy to remove, replace and clean
- ▶ Optional photoelectric sensor reflecting plate for automatic workpiece detection.

### Selected part numbers

Part number	Static neutralisation space [mm] (width x depth)	Dimensions [mm] (width x depth)	Dust collector: exhaust flow rate [l/min]	Air consumption [l/min]	Ionizer: no. of mounted units
<b>ZVB20-B</b>	202 x 212	210 x 297	410 to 1580	420	1
<b>ZVB40-B</b>	392 x 298	400 x 384	820 to 3160	800	2

### Accessories

Part number	Description
<b>ZVB-D3A</b>	3 m exhaust duct hose
<b>ZVB-D1A</b>	1 m exhaust duct hose
<b>ZVB-P1A</b>	Dust collecting bag
<b>ZVB-AC1EU</b>	AC adapter
<b>IZN10-NT-X325</b>	Emitter
<b>AS2001F-06D-X678</b>	Air blow adjustment needle valve

## Electrostatic sensor – IZD10 Series



- ▶ Potential measurement:  $\pm 20$  kV (detected at a 50 mm distance),  $\pm 0.4$  kV (detected at a 25 mm distance)
- ▶ Analogue output: the measured electrostatic potential is converted into a 1 to 5 V output that can be used with the electrostatic monitor IZE11
- ▶ Small and easy to mount.

### Selected part numbers

● Stocked items

Part number	Potential measurement	Output voltage
<b>IZD10-110</b> ●	$\pm 0.4$ kV	1 to 5 V
<b>IZD10-510</b> ●	$\pm 20$ kV	1 to 5 V

## Electrostatic monitor – IZE11 Series



- ▶ Electrostatic sensor IZD10 monitor
- ▶ Output: switch output x 2 + analogue output (1 to 5 V, 4 to 20 mA)
- ▶ Supports two types of sensors:  $\pm 0.4$  kV and  $\pm 20$  kV
- ▶ Two colour display (red and green)
- ▶ Minimum unit setting: 0.001 kV (at  $\pm 0.4$  kV), 0.1 kV (at  $\pm 20$  kV)
- ▶ Display accuracy:  $\pm 0.5$  %
- ▶ Connection by connector:
  - Connector for power supply / output
  - E-con connector: connector to sensor.

### Selected part numbers

● Stocked items

Part number	Input / Output	Connector cable for power supply/output	Connector for sensor connection
IZE112-LC ●	2 PNP + (1-5 V)	Yes	Yes
IZE113-LC ●	2 PNP + (4-20 mA)	Yes	Yes

### Accessories

● Stocked items

Part number	Description
ZS-28-A ●	Connector cable for power supply/output (2 m)
ZS-28-B ●	Bracket
ZS-28-C ●	Connector for sensor connection
ZS-27-C ●	Panel mount adapter
ZS-27-D ●	Panel mount adapter + Front protective cover

## Handheld electrostatic meter – IZH10 Series



- ▶ Portable sensor
- ▶ Compact and lightweight
- ▶ Rated charge amount range:  $\pm 20.0$  kV
- ▶ Functions:
  - Peak & bottom display function
  - Zero clear function
  - Battery indicator
  - Backlight display

### Selected part numbers

● Stocked items

Part number	Option
IZH10 ●	None
IZH10-H ●	High-voltage measuring handle

### Accessories

● Stocked items

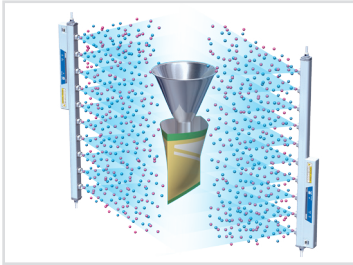
Part number	Description
IZH-A-01 ●	Ground wire, 1.5 m
IZH-B-01 ●	Soft case
IZH-C-01 ●	High-voltage measuring handle

1) IZH-B-01 and IZH-A-01 already attached to the IZH series.

# Applications

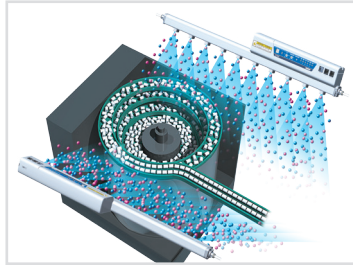
## Packing films

Prevents static electricity charging when opening bags and clinging on the inside of confectionary bags



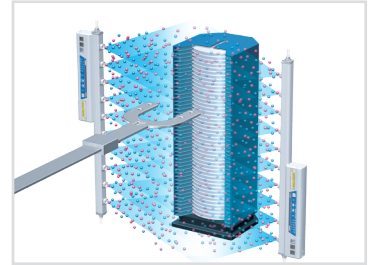
## Parts feeder

Prevents clogging



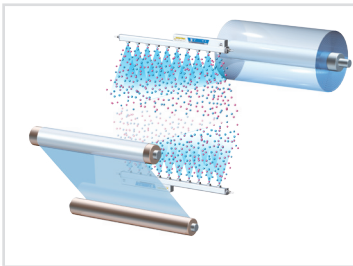
## Wafer transfer

Prevents breakage due to discharge between wafers and hands



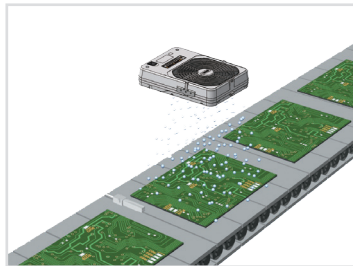
## Rolls of films

Prevents dust adhesion and winding failure due to wrinkles



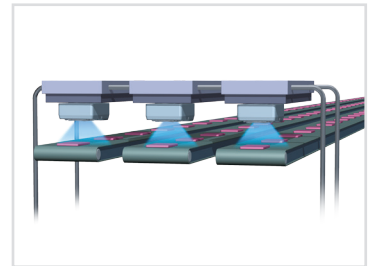
## Large electric substrates

Prevents element disruption due to discharge and dust adhesion



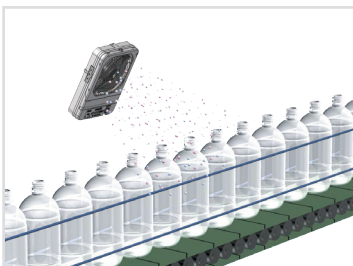
## Conveyors

Eliminates static electricity in a narrow space



## PET bottles

Prevents trip-resistance during conveying and dust adhesion



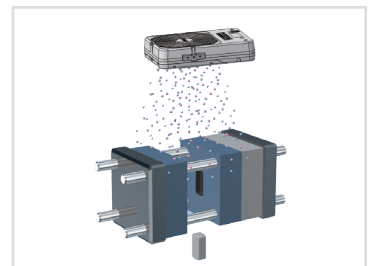
## Films

Prevents dust sticking



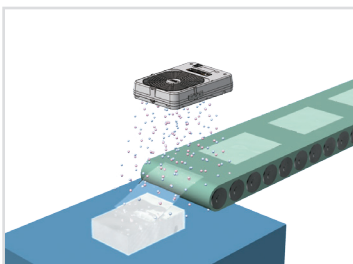
## Resin molded goods

Improves detachability of moulded goods from a die



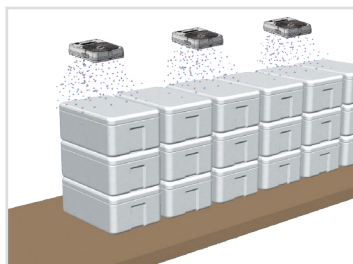
## Film moulded goods

Prevents attaching to conveyer and dispersion of finished goods



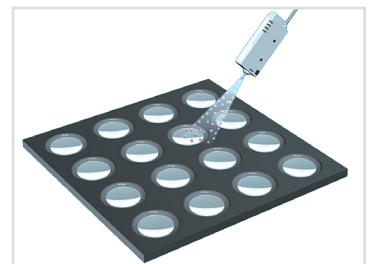
## Packaging materials made from polystyrene foam

Prevents darkening due to dust adhesion



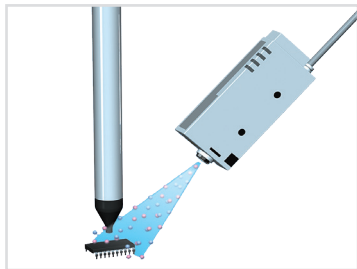
## Lenses

Removes dust and prevents dust adhesion



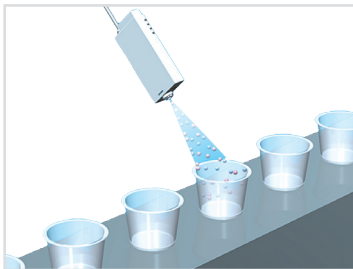
### IC chips

Prevents breakdown of electric parts and detachment failure



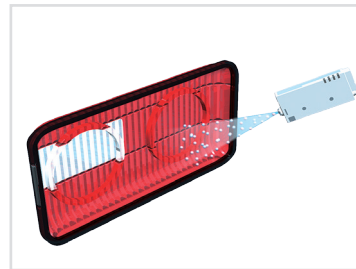
### Plastic cups

Removes dust clinging to cup interiors



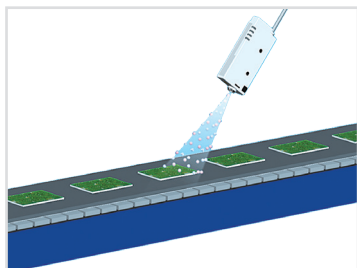
### Lamp covers

Eliminates dust clinging



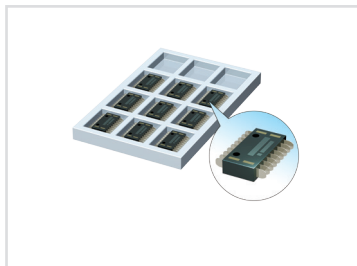
### Small electric substrates

Prevents breakdown of electric parts



### Desktop Duster Box Applications

Electronic components



Lens



Smartphone



Lamp cover



Cosmetic case



Parts for home appliances





# Antistatic products

SMC has a lineup of products that prevent from charging static electricity.

## Tubing



- ▶ TAS/TAU Series – Antistatic tubing
- ▶ TAU-X100 Series – Antistatic coloured tubing.

## Fittings



- ▶ KA Series – Antistatic one-touch fittings

## Antistatic speed controller



- ▶ AS-X260 Series – In-line type/elbow type

## Conductive vacuum pads

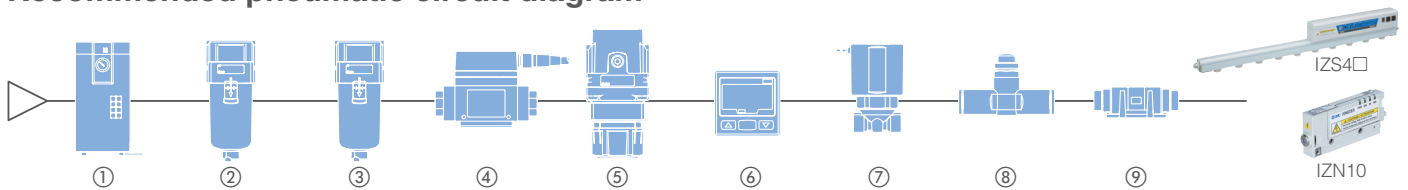


- ▶ ZP3 Series – Conductive NBR/conductive silicon rubber
- ▶ ZP2 Series – Conductive NBR/conductive silicon rubber
- ▶ ZP Series – Conductive NBR/conductive silicon rubber.

# Related product

SMC can provide all the equipment required to supply air to the ionizer.  
By using the equipment as shown below you can decrease maintenance, prevent damage and also enjoy energy saving.

## Recommended pneumatic circuit diagram



### ① Air Dryer – IDFA Series

Decreases the dew point of compressed air.  
Limits moisture generation which can lead to damage.



### ② Air Filter – AF-A Series

Eliminates solid foreign matter such as power particles in the compressed air.



### ③ Mist Separator – AFM-A Series

Eliminates oil mist which is difficult to eliminate with an air filter.



### ④ Digital Flow Switch – PF2A Series 2/3-Colour Digital Flow Switch – PFM Series

Decreases air consumption with flow control.



### ⑤ Regulator – AR-B Series

Decreases air consumption by setting to an appropriate pressure.



### ⑥ Digital Pressure Switch – ISE30A Series

The pressure control prevents the ability of static electricity removal from being reduced in accordance with the reduction of air pressure.



### ⑦ Port Solenoid Valve – VX2 Series Pilot Operated 2 Port Solenoid Valve for Dry Air – VQ Series



### ⑧ Speed Controller – AS-FS Series

Regulates to the appropriate air volume depending upon the installation condition.  
Decreases the air consumption.



### ⑨ Clean Air Filter – SFD Series

Built-in capillary element.  
Nominal filtration rating: 0.01 µm.  
Adopted hollow fiber elements with over 99.99 % filtering efficiency do not contaminate workpieces.







Expertise – Passion – Automation

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