Accessories

Feedback sensor IZS31-DF



Autobalance sensor [High-precision type] IZS31-DG



Autobalance sensor [Body-mounting type] IZS31-DE

- · Connection cable A/B (1 pc. each)
- · Sensor bracket (1 pc.)
- Hexagon socket head cap screw for sensor bracket (2 pcs.)

Accessories



Power supply cable

- · IZS31-CP (3 m)
- · IZS31-CPZ (10 m)

Connection cable A/B for connecting autobalance sensor to the body

· For driving: IZS31-CF (12P)



· For I/O signals: IZS31-CR (6P)



Electrode cartridge with rapid elimination of static electricity

- · IZS31-NT (Material: Tungsten)
- · IZS31-NC (Material: Silicon) · IZS31-NS

(Material: Stainless steel)



Electrode cartridge with

· IZS31-NK (Material: Silicon)



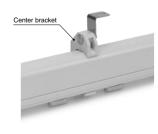
End bracket/IZS31-BE



Note) The number of center brackets required, as listed below, depends on the bar length. Two end brackets are always required regardless of the bar length.

Bar length (mm)	Quantity			
Dai lengin (mm)	End bracket	Center bracket		
300, 380, 620, 780		None		
1100, 1260, 1500	· · · · · · · · · · · · · · · · · · ·	With 1 pc.		
1900, 2300		With 2 pcs.		

Center bracket/IZS31-BM



Sensor bracket/IZS31-BL (For mounting IZS31-DE on the body)

 Provided with 2 hexagon socket head cap screw for sensor bracket (2 pcs.)

Hexagon socket head cap screw
M3 x 12 (2 pcs.)
(Accessoy)





Specifications

	Ionizer model	IZS31-□□ (NPN specification)	IZS31-□□P (PNP specification)				
Ion generation	n method	Corona discharge type					
Method of app	hod of applying voltage Sensing DC, Pulse DC, DC		Pulse DC, DC				
Electricity dis	charge output	±70	00 V				
Ion balance No	te 1)	±30 V (Stainless steel electrode needle: ±100 V)					
	Fluid	Air (Clean and dry)					
Air purge	Operating pressure	0.7 MPa or less Note 2)					
	Connecting tubing O.D.	ø4					
Power supply	voltage	24 VDC ±10%					
	Sensing DC mode	200 mA or less (While sta	anding by: 120 mA or less)				
Current consumption	Pulse DC mode	Autobalance sensor [Body-mounting type]: 300 mA or less Autobalance sensor [High-precision type]: 200 mA or less When sensor is not used: 170 mA or less					
	DC mode	170 mA	A or less				
Input signal	Discharge stop signal	Connected to GND (Voltage: 5 VDC or less,	Connected to +24 V (Voltage: Between 19 VDC and				
	Maintenance signal	Current consumption: 5 mA or less)	power supply voltage, Current consumption: 5 mA or less)				
Output signal	Static electricity removal completion signal	Max. load current: 100 mA	Max. load current: 100 mA				
	Maintenance output signal	Residual voltage: 1 V or less (Load current at 100 mA)	Residual voltage: 1 V or less (Load current at 100 mA)				
	Error signal	Max. applied voltage: 28 VDC					
	Sensor monitor output Note 3)	Voltage output 1 to 5 V (Con	<u> </u>				
Effective distar	nce of static electricity elimination	50 to 2000 mm (Sensing E	OC mode: 200 to 2000 mm)				
Ambient temp	erature, Fluid temperature		50°C				
Ambient humi	dity	35 to 80% Rh (No	condensation)				
Material Cover of ionizer: ABS, Electrode needle: Tungsten, Sing			ungsten, Single crystal silicon, Stainless steel				
Vibration resis	Vibration resistance Durability 50 Hz Amplitude 1 mm XYZ each 2 hours						
Shock resista	hock resistance 10 G) G				
Compliance wi	th overseas standards/directive	CE (EMC directive: 2004/108/EC) UL U.S. Standard for Electrostatic Air Cleaner, UL867, fourth edition CSA Canadian Standard for Electrostatic Air Cleaner, CAN/CSA C22.2 No.187-M1986					

Note 1) When the air purge is performed between a charged object and an ionizer at a distance of 300 mm

Note 2) When the electrode cartridge with low maintenance is used, the operating pressure must be 0.05 MPa or more.

Note 3) When the potential of a charged object is measured by a feedback sensor, the relationship between the potential being measured and the sensor monitor output voltage, and the detection range of the sensor vary depending on the sensor's installation distance. Refer to page 641.

Number of Electrode Cartridges/Weight

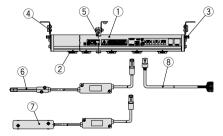
Bar length (mm)	300	380	620	780	1100	1260	1500	1900	2300
Number of electrode cartridges	3	4	7	9	13	15	18	23	28
Weight (g)	470	530	720	850	1100	1220	1410	1730	2040

Sensor

Sensor model	IZS31-DF (Feedback sensor)	IZS31-DG (Autobalance sensor [High-precision type])	IZS31-DE (Autobalance sensor [Body-mounting type])		
Ambient temperature	0 to 50°C				
Ambient humidity	35 to 85% Rh (No condensation)				
Case material	ABS	ABS, Stainless steel	ABS		
Vibration resistance	Durability 50 Hz Amplitude 1 mm XYZ each 2 hours				
Shock resistance	10 G				
Weight	200 g (Including cable weight)	g (Including cable weight) 220 g (Including cable weight) 110 g (Including			
Installation distance	10 to 50 mm (Recommended)	_			
Compliance with overseas standards/directive	CE (EMC directive: 2004/108/EC, Low voltage directive: 73/23/EEC, 93/68/EEC)				

SMC

Construction



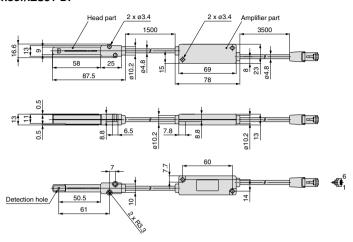
No.	Description
1	Ionizer
2	Electrode cartridge
3	One-touch fitting
4	End bracket
5	Center bracket
6	Feedback sensor
7	Autobalance sensor [High-precision type]
8	Power supply cable
9	Autobalance sensor [Body-mounting type]
10	Connection cable A (12P)
11	Connection cable B (6P)
12	Sensor bracket



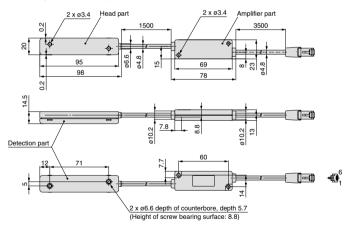
Series IZS31

Dimensions

Feedback sensor/IZS31-DF



Autobalance sensor [High-precision type]/IZS31-DG



Power supply cable/IZS31-CP□

