

SIB4L Series



Key Features

- With its slim body, diverse installation is possible
- Maximized the ion creation via reducing loss of corona discharging
- Aerodynamic design nozzle socket reduces tip contamination
- One-touch in/out socket application
- Tip cleaning device (Option)
- Design for minimum air consumption
(Newly designed socket minimized the air consumption but maximized the air pressure)

Specifications

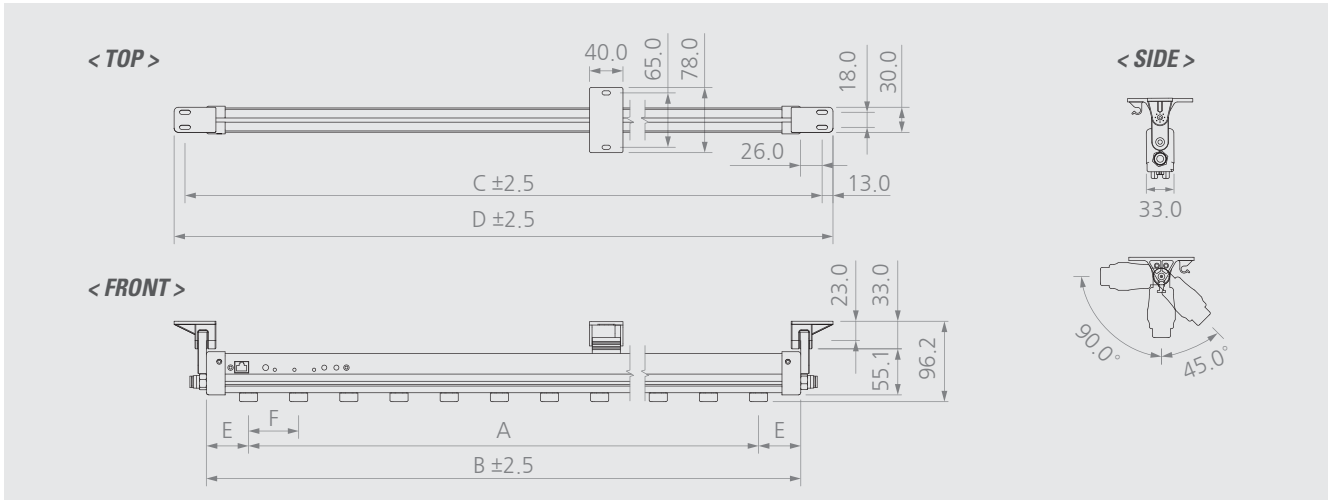
Parameter	Description / Value
Input Power	DC 24V (±5%)
Power Consumption	Max. 14.4W
Current Consumption	Max. 500mA (DC 24V)
Ion-Generation Method	Corona Discharge Pulse AC
Air Purge Supply Pressure	0.1 ~ 0.5MP (CDA, N ₂)
Air Purge Connection Port	Pipe Thread 1/8"
Ion Balance	Within ±30V (1,000mm)
Ozone(O ₃) Concentration	≤0.05ppm
Main Body Material	Non-Flammable ABS (Level V0)
Electrode Material	SUS (Option : Tungsten)
Electrode Replacement	Cartridge type
Operation Circumstance	0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH
Mounting Method	Bolt Mounting with Bracket
Adjust Function	Duty Ratio 40 ~ 60%
Alarm Function	High Voltage Abnormal Alarm
Operating Distance	50 ~ 2,000mm
Option	SBP-RD (DC Power Supply)
Warranty	1 year

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

Ion Bar

Electrostatic Total Solution

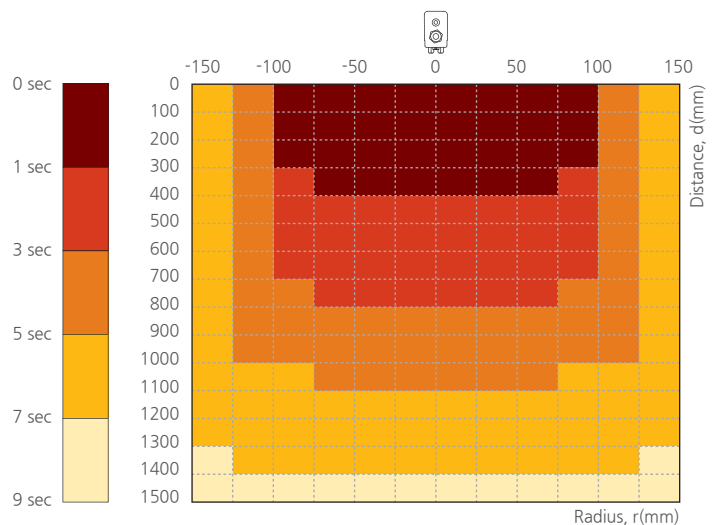
Dimensions



No.	Model No.	Tip Q'ty	A	B	C	D	E	F	Middle BKT Q'ty
1	SIB4L-700	10	540	680	731	757	70	60	-
2	SIB4L-800	12	660	800	851	877	70	60	-
3	SIB4L-900	14	780	881	932	958	50.5	60	-
4	SIB4L-1000	16	900	1001	1052	1078	50.5	60	1
5	SIB4L-1100	18	1020	1121	1172	1198	50.5	60	1
6	SIB4L-1200	20	1140	1241	1292	1318	50.5	60	1
7	SIB4L-1300	22	1260	1361	1412	1438	50.5	60	1
8	SIB4L-1500	24	1380	1481	1532	1558	50.5	60	1
9	SIB4L-1600	26	1500	1601	1652	1678	50.5	60	1
10	SIB4L-1700	28	1620	1721	1772	1798	50.5	60	2
11	SIB4L-1800	30	1740	1841	1892	1918	50.5	60	2
12	SIB4L-2000	32	1860	1961	2012	2038	50.5	60	2
13	SIB4L-2100	34	1980	2081	2132	2158	50.5	60	2
14	SIB4L-2200	36	2100	2201	2252	2278	50.5	60	2
15	SIB4L-2300	38	2220	2321	2372	2398	50.5	60	2
16	SIB4L-2500	40	2340	2441	2492	2518	50.5	60	3
17	SIB4L-2700	44	2580	2681	2732	2758	50.5	60	3
18	SIB4L-3000	48	2820	2921	2972	2998	50.5	60	3
19	SIB4L-3200	52	3060	3161	3212	3238	50.5	60	3
20	SIB4L-3400	56	3300	3401	3452	3478	50.5	60	3

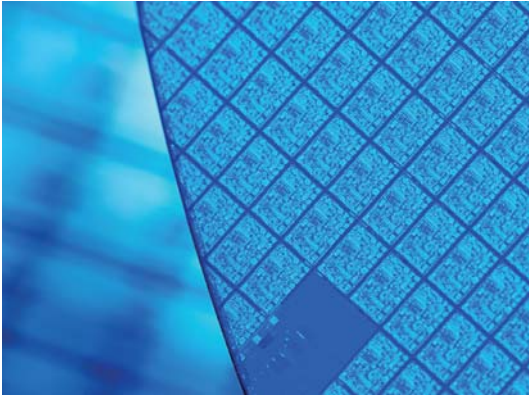
Decay Time Characteristics

- Model : SIB4L-1000
- Socket : SIE-4
- Output Voltage : A10.5kVp-p
- Air Pressure : 0.3MPa
- Decay Time : ±1,000V to ±100V
- Temperature & Humidity : 24°C±1°C, 44%±2% RH
- Charge Plate Capacitance : 20pF (150 X 150 mm)
- Frequency : 30Hz



Ionizer Applications

Electrostatic Total Solution



Semiconductors

Due to the miniaturization of semiconductors and increased circuit integration, semiconductors have become more susceptible to static electricity.

Static electricity can damage or destroy internal semiconductor circuits and cause device defects, making static elimination essential.



Liquid crystal / Organic EL displays

As the size and resolution of LCD and organic EL displays continue to increase, many static electricity problems are also occurring in the production process. How quickly static electricity is eliminated from the larger surface area is directly related to production yield, making it a very important factor.



Films

Static electricity generated by the pressure and friction between film and rollers can cause sparks, leading to film damage (perforation), attachment of foreign substances, decreased efficiency during post-processing, and safety issues due to static shocks. Particularly during winding and unwinding, hundreds of thousands of kV of static electricity can be generated. However, Sunje's static eliminators can neutralize static electricity even under these harsh conditions.



Plastic injection molding

During plastic injection molding, a large amount of static electricity is generated due to friction and separation. This static electricity causes foreign substances to adhere inside the injection molding machine, leading to defects. It also prevents molded products from separating from the mold, requiring frequent manual intervention by workers, which decreases production yield and efficiency. Using a static electricity removal device can solve these problems.

Ionizer Applications

Electrostatic Total Solution



Powder

Static electricity generated by the friction of powder particles causes them to adhere to inlets and containers, hindering uniform packaging and reducing production efficiency and yield. Additionally, in some situations, this can lead to severe consequences such as explosions. Sunje's optical irradiation static eliminator can address static issues in areas where there must be no airflow, like with powder particles.



Printing

Static electricity charged on paper and film can cause a variety of problems such as ink smearing, ink scattering, uneven powder coating, double-sheet feeding, adhesion during paper transport, paper jams, and misalignment. In sequential printing processes, if static electricity problems occur in even one process, they can affect subsequent processes, leading to time and financial losses.



Rechargeable Batteries

To produce secondary batteries, a dry cleanroom and a low-humidity environment are essential. These conditions easily lead to static electricity, so measures to neutralize static electricity are necessary. Sunje's static eliminators can prevent separator film damage (perforation) and foreign substance adhesion, reducing product defects and increasing yield.



Coating / Painting

Coating and painting are used in numerous applications, including metal and plastic automobile parts. Static electricity generated during the coating and painting processes can cause material to smear or scatter and can lead to foreign substance attachment, reducing quality. Due to the process characteristics, a large amount of flammable gases are present, which can sometimes result in severe consequences such as explosions. Sunje's static eliminators can prevent these problems and improve quality.