



Industrial Equipments



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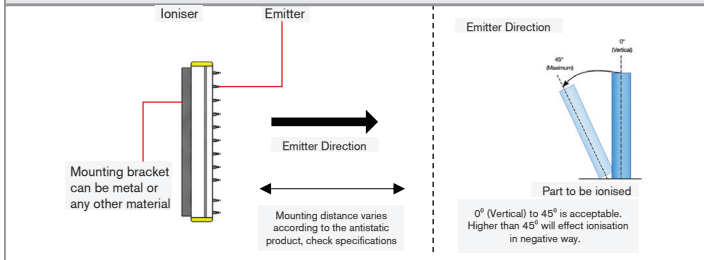


Instruction Manual

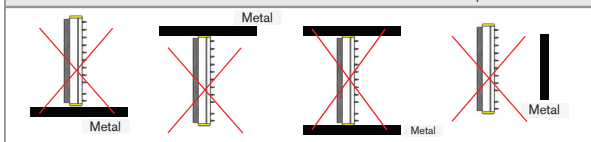
Product: SE-DCA Series
pulsedDC Antistatic Bar

IMPORTANT

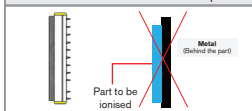
Attention: When assembling ionisers without air, always emitter direction look towards the part. Tilt mounting up to 45 degrees would be ok but be informed that higher than this angle will effect ionisation in negative way.



Attention: Do not cover the ioniser with metal or attach metal close to the emitter pins of the ionisers.



Attention: Never put metal behind part to be ionised. This will cause static eliminator unable to neutralize the part.



1. Intended Use

SE-DCA Series Antistatic Bar is designed for use in industrial areas for neutralising static charges on plastic, glass, fabric and other non-conductive materials. The product is intended for applications requiring effective static elimination at longer working distances, high charge levels and complex or geometries.

Negative and positive ions are generated by long lifetime tungsten emitter pins and are transported to the target surface by compressed air flowing through the integrated air channel along the bar profile. Precisely directed airflow improves ion transport efficiency, increases discharge performance at longer distances and enables effective ionisation in hard-to-reach areas. PulsedDC technology provides more effective and powerful ionisation performance compared to conventional AC systems, making the SE-DCA Series suitable for demanding industrial ionisation applications.

The system operates with 24 VDC supply and provides shockless operation without requiring an external high voltage transformer. Compact mechanical design, integrated LED status indication and standard M8 4 pin connection make the product suitable for most industrial ionisation applications.

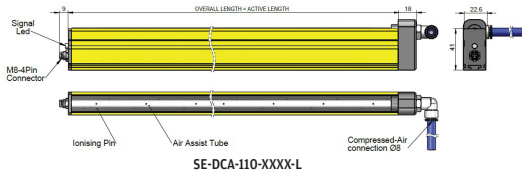
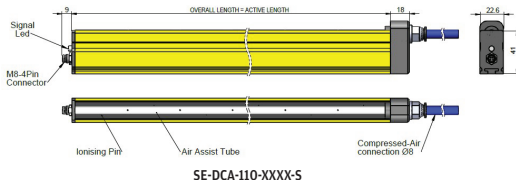
The system must be operated within the limits specified in technical data and used according to technical specifications as well as installation instructions. The system must be used in such a way that no persons are endangered and no machines or other material goods are damaged in the event of malfunction or total failure of the system. Take additional precautions for safety and damage prevention in case of safety-related applications.

2. Technical Information

Product	SE-DCA-110-XXXX-S	SE-DCA-110-XXXX-L
Air Connection	Ø8mm Straight Fitting	Ø8mm L Type Fitting
Air pressure - dry filtered air	3 bar (6 bar max.)	
Electrical Input	24 V DC (21-28 V), maximum current required 0.5 A.	
Effective working distance (mm)	25 - 1000	
Output	11kV Shockless	
Length for ordering (mm)	Available Lengths: minimum order length 300 mm, then in 100 mm steps to 2000 mm	
Power supply	SE-PSU-24-C-M8	
Power connector	M8 4 pin (device side male)	
Environment	0 - 55 °C, 70 % rH non-condensing max. IP66. Fully sealed.(with suitable cable)	
Safety	Shockless, pin current < 250µA	
Standards	2014/30/EU EMC Directive	
	2014/35/EU Low Voltage Directive	

3. Dimensions / Installation

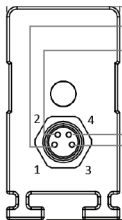
System operation assumes knowledge of the assembly instructions. The symbols used for safety is shown in section 8(Safety) of manual.



For all models, maximum length of cable and bars connected(total) can be used is 15m. If length of cables and bars exceed 15m. Power unit will not work properly and may cut the power to prevent damage.



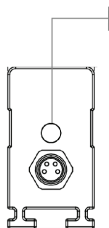
4. Electrical Connection



- 1: 24V (Brown)
- 2: Earth (White) The WHITE wire to the M8 4-pin connector must be connected to installation earth.
- 3: 0V & Earth (Blue)
- 4: Remote Monitor (Black)



5. Display/Controls



LED



STATUS

OK

- Input voltage is outside of 21V - 28V range.
 - Check input voltage at Bar.
- Bar overloaded.
 - Clean Bar.
 - Make sure that positioning of Bar meets these instructions.
- H.V. output not correct.
 - Contact FÖGE or distributor.

6. Faults

In any of below cases or others do not open the product.  

If switch is on but the ON/OFF light is OFF, change the fuse inside the power unit. Fuse type: F0.5AL250V Fast Blow Glass Fuse 5x20mm

7. Warnings

Connect the power supply and the display/output device according to the safety regulations for electrical equipment.

The supply voltage must not exceed the specified limits.

Avoid shocks and impacts to the sensor.

Protect the cable against damage.

Possible Results of Avoidance

Risk of injury by electric shock 

Damage to or destruction of the sensor  

8. Maintenance

Because of the nature of ionisation process particles in the air sticks to the emitter pins and carbonizes. This process have a negative effect on ionisation performance.

All AC and DC ionising bars should be checked regularly and cleaned. FÖGE

Antistatic Bar Celaning Liquids and Brushes. 

9. Safety

System operation assumes knowledge of the assembly instructions. The following symbols are used in these assembly instructions:



Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.



Indicates a situation that may result in property damage if not avoided.



Indicates an electrical shock if not avoided or properly follow comments.

10. Liability for Material Defects

All components of the device have been checked and tested for functionality at the production facility. However, if defects occur despite our careful quality control, FÖGE or your dealer must be notified immediately.

The liability for material defects is 12 months from delivery.

Within this period, defective parts, except for wearing parts, will be repaired or replaced free of charge, if the device is returned to FÖGE with shipping costs prepaid. Any damage that is caused by improper handling, the use of force or by repairs or modifications by third parties is not covered by the liability for material defects. Repairs are carried out exclusively by FÖGE.

Further claims can not be made. Claims arising from the purchase contract remain unaffected. In particular, FÖGE shall not be liable for any consequential, special, indirect or incidental damage. In the interest of further development, FÖGE reserves the right to make design changes without notification.

11. Decommissioning, Disposal

Remove the power supply and output cable on the sensor.

Incorrect disposal may cause harm to the environment.

Dispose of the device, its components and accessories, as well as the packaging materials in compliance with the applicable country-specific waste treatment and disposal regulations of the region of use.