

SMART ION 121

Ionisation bar with intelligent electrostatic discharge, for short or medium range applications

SI121



Key Facts

- ✓ **Compact ionisation system** with integrated high-voltage power supply and 24 V DC supply voltage
- ✓ **The amount and polarity of the ions to be generated are** controlled intelligently with an integrated measuring system
- ✓ **Speed specifications:** Effective range 30-250 mm and transport speeds of up to 1300 m/min
- ✓ **Distance specifications:** Effective range 100-500 mm and transport speeds of up to 150 m/min

- ✓ Quicker discharge: With active control, efficiency can be increased up to 250%

Product Description

SMART ION 121 – our high-performance and intelligent ionisation system, eliminates electrostatic discharges with a large effective range – even without compressed air support.

The charge can change from positive to negative when changing materials. In automatic mode, the SMART ION intelligence automatically reacts to changing polarities and optimises ion uncoupling without user interaction.

SMART ION 121D has been developed for applications where high discharge capacity is required, even at greater working distances. SMART ION 121S on the other hand is optimised specifically for applications where high material speeds are a factor. With UL certification, this product delivers trusted safety and performance in the North American market.

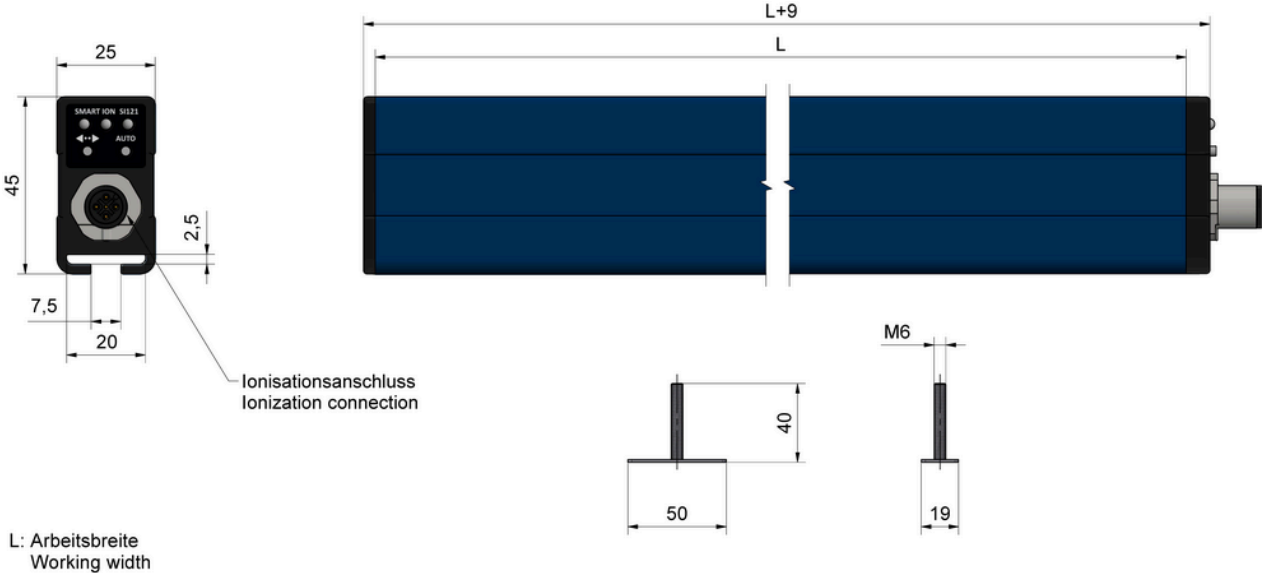
- Application-specific designs are available for large working distances or high transport speeds
- DC pulse technology for neutralising electrostatic charges on large surface areas without air support
- Discharge voltage +/- 12 kV
- The “Clean Me” function monitoring signals the need for cleaning
- Safe to the touch for users
- Optical function and error signals via LED status display
- Status signal for external function monitoring
- Suitable for use in cleanrooms
- Can be synchronised via standby signal

Technical Data

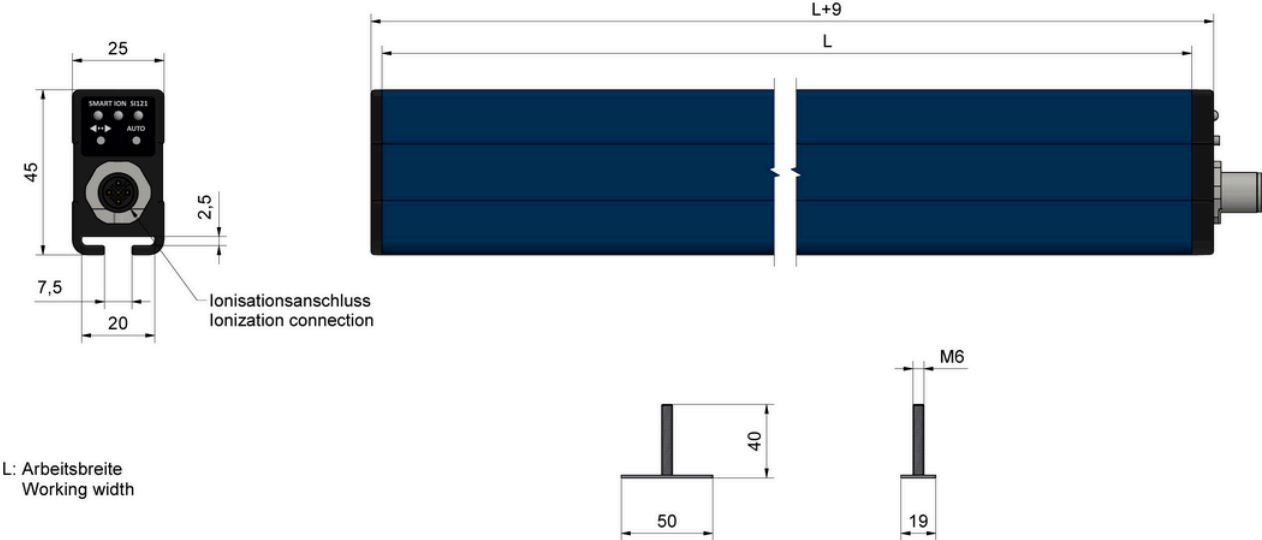
	SI120D	SI120S
Version	larger working distances	high-speed operations
Cleanroom class	ISO 4	ISO 4
Working width	360 - 4920 mm	360 - 4980 mm
Working width increment	120 mm	60 mm
Working distance (min. - max.)	100 - 600 mm	40 - 250 mm
Emitter clearance	120 mm	60 mm
Operating voltage	24 V (DC)	24 V (DC)
Current consumption (max.)	1500 mA	1500 mA
Output voltage	12 kV	12 kV
Ambient temperature (min. - max.)	0 - 55 °C	0 - 55 °C
Weight per meter	1.5 kg	1.5 kg
Conveying direction (uni-/bi-/multidirectional)	bi-directional	bi-directional
Ingress protection	IP67	IP67

Technical Drawings

SI121D



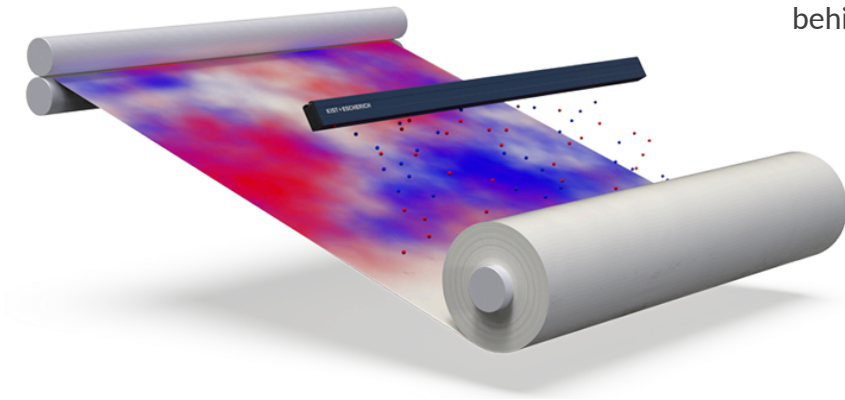
SI121S



TECHNOLOGY

SMART ION

When charges become a risk, SMART ION neutralises them reliably. Discover the intelligent technology behind it.



Related Products



ION CHECK

Function tester for testing ionisation systems



ELFI 1

Compact static field strength meter for analysis of static electricity