SPICER SC26

DESCRIPTION

The Spicer SC26 is the only magnetic field cancellation system for electron beam tools in semiconductor manufacturing facilities designed to mitigate the high-frequency fields unique to overhead wafer transport robots.

KEY FEATURES

- Uses DC + AC sensors to cancel fields from DC to 10k Hz
- Mixes up to four sensors to create a virtual sensor "inside" the EM column with broadband performance
- Advanced controller with a touchscreen user interface, automatic setup, DC reset feature, simultaneous display of DC & AC fields, and optional external monitoring
- Quick confirmation that tools are clear for use with green "Field OK" indication on the sensor(s) & controller
- \bullet Adapts to field changes within 10 μs

SPECIFICATIONS



Field Cancelling	
Components Cancelled	X, Y, Z fields
Dynamic Range*1	5 μT Pk-Pk
With SC26/AC Sensor(s)	
Field Cancelling Factor	20 x typ. at 9 kHz 40 x typ. at 60 Hz
Cancelling Noise Limit (1 Hz to 10 kHz)	0.6 nT RMS total
With SC26/AC Sensor(s) & SC24/DC+AC Sensor(s)	
Ambient DC Field Limit	± 200 μT max
Field Cancelling Factor	20 x typ. at 9 kHz 200 x typ. at 60 Hz & DC
Cancelling Noise Limit (DC to 10 kHz)	0.7 nT RMS total
DC drift*2	< 2 nT/ 24 hours
Power	120/240 V 50/60 Hz, 100 VA
1* Dynamic range is stated at the nominal AC power input of 120 De-rate linearly for lower voltages	o or 240 volts RMS.

De-rate linearly for lower voltages.

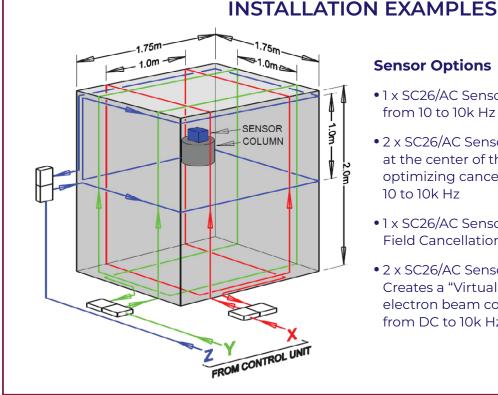
2* Drift (@23°C ±2°C, after 2 hour warm-up)

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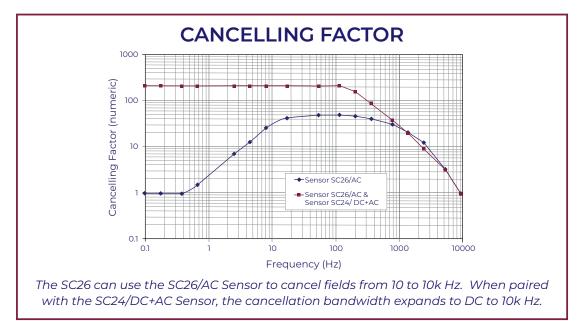
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Sensor Options

- 1 x SC26/AC Sensor Field Cancellation from 10 to 10k Hz
- 2 x SC26/AC Sensors Creates a "Virtual Sensor" at the center of the electron beam column, optimizing cancellation from 10 to 10k Hz
- 1 x SC26/AC Sensor, 1 x SC24/DC+AC Sensor -Field Cancellation from DC to 10k Hz
- 2 x SC26/AC Sensors, 2 x SC24/DC+AC Sensors -Creates a "Virtual Sensor" at the center of the electron beam column, optimizing cancellation from DC to 10k Hz





For more information about the Spicer SC26, scan this QR code.





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