# **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  $\mu s$

## 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<br>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<br>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<br>De-rate linearly for lower voltages | o or 240 volts RMS.                            |

De-rate linearly for lower voltages.

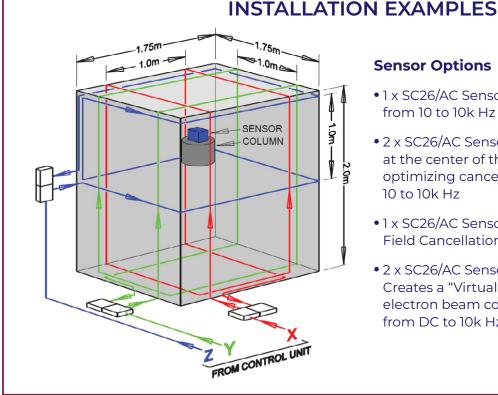
2\* Drift (@23°C ±2°C, after 2 hour warm-up)

### SPICER CONSULTING



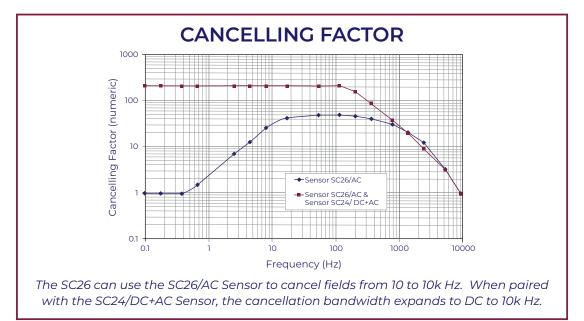
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#### **Sensor Options**

- 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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