

SPECIFICATIONS

Physical

User Interface:

Universal icon-based (language independent)

Display:

Type: Color TFT LCD

Active area: 480H x 272V pixel

3.74 inch [95 mm] x 2.12 inch [53.86 mm]

Dimensions:

W x H x D: 210 mm x 112 mm x 33 mm

Power Input Requirements

Power Supply:

SB-2000: 24 VDC with terminal block connection, and M5 ground stud

SB-2000-P: 24 VDC with 8 pin M12 connector

Input Voltage:

+22VDC to +26 VDC at 0,75A max.

Surge protected

Negative protected (reverse protected from a non-grounded supply)

Fused

Communications Interfaces:

1 x USB 2.0

SB-2000: CNC/PLC hardwire interface (opto-isolated outputs)

Safety and Environmental

CE certified

RoHS compliant

Environmental and Installation Conditions:

Installation category I

IP54, NEMA 12

Environmental temperature range: 5 °C to +55 °C

Humidity: 0 to 85 % relative humidity

(non-condensing) throughout temperature range



The SB-2000-P model is available as part of the SB-2040 dual-plane kit:

Kit includes:

- SB-2000-P control unit
- SB-3420 Vibration sensor (2 ea.)
- SB-1802 RPM Sensor*
- SB-1916 RPM Cable
- SB-1799 RPM Sensor Stand
- SB-1875 Universal Power Adapter
- SB-1500 Carry Case
- MC-1716 Reflective Tape

*Sensor included is rated for applications up to 24,000 RPM. Contact SBS for assistance with higher RPM applications.

Performance

Balance methods supported:

Circumferential Weight > Single weight is positioned around rotor circumference.

Single Point > Single weight is positioned on the rotor face.

2 and 3 Slide Weight > 2 or 3 repositionable weights on a fixed diameter.

Fixed Positions > Multiple polar positions where weight can be positioned.

RPM Reporting:

30 to 100,000 RPM

Wide Vibration Range:

50 µg to 1,25 g

Vibration Display Resolution:

Four digit display, with display resolution to 0.001 µm

Vibration Display Repeatability:

6,000 RPM ±1 % @ 5.0 µm

30 – 100,000 RPM ±2 % @ 50:1 signal to noise

Genauigkeit der Vibrationsanzeige:

6.000 U/min ±2% bei 5,0 µm

30 – 100.000 U/min ±4% @ 50:1 signal to noise

Balance Resolution: 0.02 microns displacement at 6,000 RPM

Custom digital filter has bandwidth +/- 7% 0-40,000 RPM

+/- 14% 40,000+ RPM

NSPSFBNSBUBOPO4BQSPVEDUTTFBDSFUFDI4BOPNUPEBEMVMPDBM4BEBUSVUPSPS3FQSFTFUUBUW/FPSDBMMBDSFUFDI4B*OD

%BIBB-RB

2; *%IRY

4SVRERH3VIKSRfl

97%

7EPIWBBBIBBQ

8IPITLSRlµfl

*Efl

