SCD - Sense | Connect | Detect

Industry 4.0 out of the box

BOSCH
Invented for life

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The Sense Connect Detect (SCD) enables companies to get started easily with industry 4.0. As a cost-effective, reliable (IP67) and easy-to-install solution, the sensor device attaches to almost any machine and component. The data acquisition process can start right away and reports wirelessly via Bluetooth low energy. The acquired data is visualized via the SCD mobile App that can be operated without prior knowledge.

BUILT-IN SENSORS

Accelero-meter   Light sensor   Magneto-meter   Temperature sensor

APPLICATION ADVANTAGES
▶ Extremely simple plug and play sensor
▶ Provides first insight on the machine response, as well as raw data for further processing
▶ Multiple use device with non-rechargeable battery

SCOPE OF DELIVERY
▶ SCD device & built-in battery
▶ Quick Start Guide
▶ Packaging unit consists of 10 devices

DOWNLOAD
▶ App: SCD Sensor

OPERATING CONDITIONS
▶ Operating temperature range   -20°C ... +85°C
▶ Recommended storage temperature   +10°C ... +30°C
▶ Humidity range   0% rH ... 100 % rH

MEASUREMENT RANGES & ACCURACIES

Sensor	Measurement Range	Accuracy
▶ Acceleration	± 200g	± 10 %
▶ Magnetometer	± 1300 µT (X, Y-Axis); ± 2500 µT (Z-Axis)	± 5 %
▶ Temperature	-20°C ... +85°C	± 0.25 °C
▶ Light	0 ... 188000 Lux	± 15 %

Note: specified accuracies refer to the inbuilt sensors. The accuracy and responsiveness of the SCD110 might deviate from sensor specifications dependent on installation conditions and environmental influences.

RESOLUTION
- Acceleration   0.1 g
- Magnetometer   10 µT
- Temperature   0.1°C
- Light   1 lux

DEVICE SPECIFICATION
- Dimension (L x W x H)   70.9 mm x 62 mm x 11.3 mm
- Weight   21 g
- Power supply   non-rechargeable CR2450 3V Li/MnO$_2$, 490mAh
- Battery life   up to 2 years depending on configuration and use
- Enclosure protection class   IP 67
- Electrical protection class   III
- Sampling rates (Hz)   Acceleration : 400, 800, 1600, 3200, 6400
  Magnetometer: 10
  Temperature: 0.05
  Light: 1.25, 10
- Memory capacity   1 MB
- BLE Activation   In Standby: On push button
  During operation: Automatic activation every 3 hours
- Country certifications   CE, USA, Canada - *for other countries ask our support*
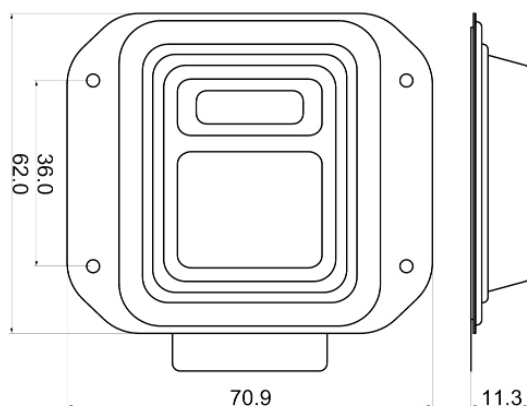- Environmental certifications   RoHS, REACH

COMMUNICATION
- Bluetooth Low Energy
- Range   up to 40 m (dependent on external influences)

USER INTERFACE
- SCD Sensor App   free smartphone application for configuration,
  read out and visualization

DRAWING AND DIMENSIONS

GET IN CONTACT WITH US!

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