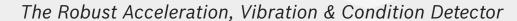
Connected Industrial Sensor Solution | CISS





The CISS is a multi-sensor device detecting acceleration and vibration as well as environmental conditions. The robust housing and the small outline makes it perfectly suitable for industrial retrofit applications such as condition monitoring and predictive maintenance. Configuring the device enables the customer to address a broad variety of use cases by interpreting the sensor data by smart algorithms.

BUILT-IN SENSORS



Accelerometer



Temperature sensor



Humidity sensor



Digital light sensor



Gyroscope



Magnetometer



Pressure sensor



sensor

USE CASES

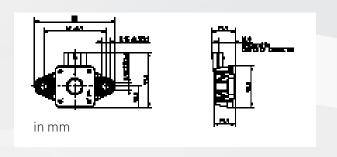


SCOPE OF DELIVERY

- CISS device with a small form factor
- ► USB cable (2m)
- ► Fasteners (2 screws, 2 washers, and 2 magnetic bases)
- Quick Start Guide

DOWNLOADS

- ► Example Python script 2.7.XX for data recording
- Windows Driver



MAIN COMPONENTS

- ► Bluetooth Low Energy (BLE) radio
- ▶ 32-Bit microcontroller (ARM Cortex M3), 1MB Flash, 128 kB RAM
- ► External flash 2MB





OPERATING CONDITIONS

▶ Operating temperature range
 -20 °C ... 85 °C
 ▶ Storage temperature range
 -20 °C ... 60 °C

► Humidity range 10...90 %rH (non-condensing)

▶ IP rating IP54 (standard), IP67 (with IP67 cable)

► Supply voltage 5 V DC

MEASUREMENT RANGES & ACCURACIES

Sensor	Measurement Range	Accuracy
 Accelerometer Gyroscope Magnetometer Temperature 	± 2, 4, 8, 16 g (16 bit resolution) ± 2000 °/s ±1300 μT (X,Y-Axis); ±2500μT (Z-Axis) -40 °C 85 °C	± 50 mg ± 1 °/s 0.06 × MCISS ± 25 μT 0.03 ×TCISS ± 3.7 °C
HumidityPressureLight	10 – 90% (non-condensing) 30 – 110 kPa 0.53 2220000 Lux	20 °C, max. ±7 % ; -20 °C, max. ±10 % ± 1.5 hPa ± 15 %

SAMPLING RATE (USB)*

► Inertial sensor ** ≤ 100 Hz

Accelerometer, Gyroscope, Magnetometer

► Environmental sensors ≤ 1 Hz

Environment (Temperature, Humidity, Air pressure), Light meter, Microphone

INTERFACE

- USB communication protocol supporting data streaming
- ▶ Bluetooth Low Energy radio protocol supporting data streaming
- ► Example software for Windows/Linux

GET IN CONTACT WITH US!

E-Mail: info@bosch-connectivity.com **Website:** www.bosch-connectivity.com/CISS

^{*}BLE sampling rate depends on transmission performance

^{**} Inertial sensor special mode possible: 2kHz streaming Accelerometer without Gyroscope and Magnetometer data

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