

Press release

Bosch Connected Devices and Solutions



Bosch enables „Industrial IoT out of the box“

Connected sensor devices improve availability and efficiency on machines and equipment

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- ▶ The industrial IoT sensor unit „SCD – Sense Connect Detect“ records data from machines and equipment
- ▶ Sensor data form the basis for increasing efficiency
- ▶ Quick and easy installation and commissioning
- ▶ Wireless data transmission and visualization via mobile app

Reutlingen - Sensors are the sensory organs of the „Factory of the Future“. The data collected can be used to optimize processes, reduce downtimes and minimize rejects. The result: production and effectiveness of machines and plants are increased and improved. So how can the first step towards industry 4.0 be implemented as cost-effectively as possible? Bosch combines the expertise in sensor manufacturing with Bosch Rexroth's automation experience and provides the answer with the sensor device "SCD - Sense Connect Detect" (SCD). SCD captures data that forms the basis for increasing efficiency.

SCD – the Multi-Talent

SCD is equipped with four different sensors (acceleration sensor, temperature sensor, light sensor and magnetometer). From commissioning to the production phase through to servicing, there are multiple application examples in which SCD contributes to considerable increases in efficiency.

SCD records vibration profiles, whose analysis indicates the wear status of machines, components or tools. Shocks, for example, caused by a collision of components, are recorded.

The ambient temperature in the production environment is monitored to ensure the quality of the components produced. The measurement of the surface temperature of machines and components allows conclusions to be made regarding the wear status.

The light sensor monitors the status of several warning lamps without a person having to be directly on site.

The magnetic sensor is used to detect ferromagnetic objects, which makes it possible to count motion cycles or produced parts, as well as the current flow in cables.

SCD - sealed, compact, wireless

Equipped with a water and dustproof housing (protection class IP67), the SCD can easily be installed in harsh industrial environments without additional effort. For this purpose, the adhesive strip on the rear side is suitable, but also cable ties or screws that lead to a secure connection through the fixing holes integrated in the housing. SCD can be used for monitoring both the initial equipment of new machines and systems and existing machines and systems without interfering with the existing control technology and interrupting production for installation, integration and commissioning. This is made possible by the compact design (71mm x 62mm x 9.1mm), the supply of power via battery and wireless data transmission.

SCD - the solution for IoT specialists

With the SCD, Bosch is revolutionizing the way IoT specialists collect, visualize, store and send data for further analysis (.csv file).

The app is available free from the Apple App Store / Google Play Store. The configuration takes only a few minutes. The SCD provides measurement data immediately after activation.

Press photos: #1860748, #1860749

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). The company generated sales of 78.5 billion euros in 2018. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 460 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At nearly 130 locations across the globe, Bosch employs some 68,700 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert

Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-two percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust. The remaining shares are held by the Bosch family and by Robert Bosch GmbH.

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