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COMPONENT: TI-RTOS

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COMPONENT: SYS/BIOS

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COMPONENT: CC26XXWARE DRIVERLIB

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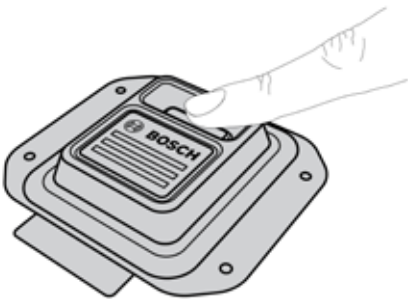
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# SCD110 Quick Start Guide

EN

## Quickstart Guide

A full description is available at:  
<https://www.bosch-connectivity.com/products/sense-connect-detect>

### Connecting to the SCD

- 1. Start the SCD Sensor App. You will find the SCD Sensor App in your Apple App Store or Google Play free of charge.
- 2. Activate Bluetooth on your smartphone.
- 3. To activate the SCD, press the button on the device for 1 to 3 seconds.
- 4. To find the visible SCDs in range, tap “Search for devices”.
- 5. Choose the SCD and follow the instructions on your smartphone to finalize pairing.

### Configuring the SCD

To configure your app, follow the steps shown in the app.

#### Notice Convention for Characters

Only certain characters can be used for an email address and the device name.  
► The following characters are permitted: [A-Z][a-z][0-9][@,./|!+\*\_-]

The **streaming** function transmits sensor values at a fixed rate to the app. Values can be visualized and recorded in the “View” tab. To start streaming, select the “Streaming” button.

The **logging** function stores raw data in the SCD internal memory. Data can be later transmitted to the SCD app. To configure and start logging, select the “Logging” button in the app.

The **threshold** function monitors the streamed or logged values and triggers alarms on BLE accordingly, if values are out of a defined range. To configure the thresholds, go to the “Thresholds” tab.

### Transferring data

Connect your smartphone with the SCD using the SCD app. To download existing data in the SCD, go to the “Logging” tab and select “Download”.

#### Notice Data transfer

► The downloading process may take several minutes. Logging is stopped in order to proceed with the transfer.

#### Caution Lithium battery!

The device contains a lithium battery. Handling the battery incorrectly could cause a fire.  
► Read and follow the valid transportation regulations, if necessary.

#### Notice Forfeiting the warranty!

Opening the casing without authorization could present risks to the user and will void any warranty.  
► Do not open the housing.

### Gerätespezifikationen

- Verwendungszweck Betriebszustandsüberwachung. Der Einbau des SCD110 in Maschinensteuerungen ist verboten und das Gerät verliert dadurch seine CE-Konformität.
- Abmessungen (L x B x H) 71 mm x 62 mm x 10,5 mm
- Gewicht 21 g
- Stromversorgung nicht aufladbare CR2450 3 V Li/MnO<sub>2</sub>, 490 mAh
- Batterie Lebensdauer Je nach Konfiguration und Verwendung bis zu 2 Jahre
- Gehäuse Schutzgrad IP 67
- Elektrische Schutzklasse III
- Speicherkapazität 1 MB
- BLE-Aktivierung Standby: auf Knopfdruck  
Im Betrieb: alle 3 Stunden
- Länderzertifizierungen CE, USA, Kanada - für andere Länder wenden Sie sich an den BCDS-Support
- Umweltzertifizierungen RoHS, REACH

### BETRIEBSBEDINGUNGEN

- Einsatzgebiete Wohn-, Gewerbe-, Leichtindustrie- und Industrieimmobilien
- Betriebstemperaturbereich -20 °C ... +85 °C
- Empfohlene Lagerungstemperatur +10°C ... +30°C
- Feuchtigkeitsbereich 0 % RH ... 100 % RH

### GENAUIGKEIT

- Temperatur +/- 0.25°C
- Beschleunigung bis zu +/-200g +/-10%
- Magnetometer bis zu +/- 1300 uT (X,Y-Axis); +/- 2500 uT (Z-Axis) +/-5%
- Licht 0 ... 188000 Lux +/- 15%

Hinweis: Die angegebenen Toleranzen beziehen sich auf die eingebauten Sensoren. Die Genauigkeit und Ansprechempfindlichkeit des SCD110 kann in Abhängig von den Installationsbedingungen und Umwelteinflüssen von den Sensorspezifikationen abweichen.

### AUFLÖSUNG

- Temperatur 0,1 °C
- Beschleunigung 0,1 g
- Magnetometer 10 uT
- Licht 1 Lux

### KOMMUNIKATION

- Frequenzbereich 2400 ... 2483.5 MHz
- Sendeleistung 7 dBm max
- Bluetooth Low Energy
- Reichweite bis zu 40 m (je nach äußeren Einflüssen)



### Entsorgung gemäß WEEE Richtlinie 2012/19/EU

Das Gerät, das Zubehör und die Verpackung sollten für ein umweltfreundliches Recycling sortiert werden. Das Gerät nicht mit dem Haus- oder Gewerbemüll entsorgen! Nach der Europäischen Richtlinie 2012/19/EU müssen nicht mehr verwendbare Elektro- und Elektronikgeräte getrennt gesammelt und umweltgerecht entsorgt werden.

### Konformitätserklärung:

Hiermit erklärt Bosch Connected Devices and Solutions GmbH, dass der Funkanlagentyp „SCD110“ der Richtlinie 2014/53/EU (Radio Equipment Directive) entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:  
<https://www.bosch-connectivity.com/products/sense-connect-detect>

**Bosch Connected Devices and Solutions GmbH**  
**Ludwig-Erhard-Straße 2**  
**72760 Reutlingen**  
**Deutschland**

[www.bosch-connectivity.com](http://www.bosch-connectivity.com)

FR

## Guide de démarrage rapide

Une description complète est disponible sous :  
<https://www.bosch-connectivity.com/products/sense-connect-detect>

### Connexion au SCD

1. Démarrez SCD Sensor App. Vous trouverez “SCD Sensor App” dans votre Apple App Store ou sur Google Play sans aucun frais.
2. Activez Bluetooth sur votre smartphone.
3. Pour activer le SCD, appuyez sur le bouton de l'appareil durant 1 à 3 seconde.
4. Pour trouver les SCD's visibles à portée, appuyer sur “Search for devices”.
5. Sélectionner le SCD et suivre les instructions sur votre smartphone pour terminer l'appairage.

### Configuration du SCD

Pour configurer votre application, suivez les étapes citées dans l'application.

### Note Convention relative aux caractères

Certains caractères seulement peuvent être utilisés pour une adresse courriel et pour le nom de l'appareil.

- Les caractères suivants sont autorisés : [A-Z][a-z][0-9][@,.,/|/+\* \_]

La fonction **streaming** transmet les valeurs de capteur à l'application à une période fixe. Les valeurs peuvent être visualisées et enregistrées dans l'onglet “View”. Pour lancer le streaming, appuyer sur le bouton “Streaming”.

La fonction **logging** enregistre les données brutes dans la mémoire interne SCD. Les données peuvent être transmises par la suite à l'application SCD. Pour configurer et lancer le logging, appuyer sur le bouton “Logging” de l'application.

La fonction **threshold** visualise les valeurs en streaming ou logging et déclenche une alarme sur BLE si les valeurs se situent en dehors d'une plage définie. Pour configurer les seuils, aller à l'onglet “Thresholds”.

### Transmission de données

Connecter votre smartphone au SCD en utilisant l'application SCD. Pour télécharger des données existantes dans le SCD, aller à l'onglet “Logging” et appuyer sur “Download”.



### Note Transfert de données

- Le processus de téléchargement peut demander plusieurs minutes. Le logging est stoppé afin de procéder au transfert.

### Attention Batterie lithium !

Cet appareil contient une batterie lithium. Toute manipulation incorrecte de la batterie peut entraîner un incendie.

- Le cas échéant lire et observer les prescriptions de transport en vigueur.

### Note Annulation de la garantie !

Toute ouverture du boîtier sans autorisation peut exposer l'utilisateur à certains risques et représente une clause d'annulation de garantie.

- Utiliser seulement des accessoires originaux ou autorisés.

### Spécifications de l'appareil

- Usage prévu Surveillance des conditions. L'intégration du SCD110 dans les commandes de la machine est interdite et annule la conformité CE
- Dimensions (L x l x p) 71 mm x 62 mm x 10,5 mm
- Poids 21 g
- Alimentation électrique Batterie non rechargeable CR2450 3 V Li/MnO<sub>2</sub>, 490 mAh
- Durée de vie de la batterie Jusqu'à 2 ans selon la configuration et l'utilisation
- Classe de protection du boîtier IP 67
- Classe de protection électrique III
- Capacité de mémoire 1 Mo
- Activation BLE Standby: En appuyant sur un bouton  
En fonctionnement : Toutes les 3 heures
- Certifications pays CE, États-Unis, Canada - pour les autres pays, demandez l'aide de BCDS
- Certifications environnementales RoHS, REACH

### CONDITIONS DE FONCTIONNEMENT

- Environnements Résidentiel, commercial, industriel léger et industriel
- Plage de température de fonctionnement -20 °C ... +85 °C
- Température de stockage recommandée +10°C ... +30°C
- Taux d'humidité 0 % RH ... 100 % RH

### PRÉCISION

- Température +/- 0.25°C
- Accélération jusqu'à +/-200g +/-10%
- Magnétomètre jusqu'à +/- 1300 uT (X,Y-Axis); +/- 2500 uT (Z-Axis) +/-5%
- Lumière jusqu'à 0 ... 188000 Lux +/- 15%

Remarque : les précisions spécifiées se rapportent aux capteurs intégrés. la précision et la réactivité du SCD110 peuvent différer des spécifications du capteur en fonction des conditions d'installation et des influences de l'environnement.

RESOLUTION

- Température
- Accélération
- Magnétomètre
- Lumière

COMMUNICATION

- Gamme de fréquences
- Puissance d'émission
- Bluetooth Low Energy
- Portée

2400 ... 2483,5 MHz  
7 dbm max  
jusqu'à 40 m (en fonction d'influences externes)



**Disposition conforme à la Directive WEEE 2012/19/UE**

Cet appareil, ses accessoires et son emballage doivent être soumis à un tri sélectif en vue de leur recyclage favorable à l'environnement. Ne pas jeter cet appareil avec des déchets ménagers ou industriels ! Conformément à la Directive Européenne 2012/19/UE, les appareils électriques et électroniques arrivés en fin de vie doivent être collectés séparément et être stockés d'une manière correcte pour l'environnement.



Déclaration de conformité :

Bosch Connected Devices and Solutions GmbH déclare par la présente que l'équipement radio de type "SCD110" répond aux prescriptions de la Radio Equipment Directive 2014/53/EU. Le texte intégral de la déclaration de conformité UE est disponible à l'adresse Internet suivantes : <https://www.bosch-connectivity.com/products/sense-connect-detect>

ISED Canada (IC) Note

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**Bosch Connected Devices and Solutions GmbH**  
**72760 Reutlingen**  
**Allemagne**  
[www.bosch-connectivity.com](http://www.bosch-connectivity.com)

IT

Guida rapida

La descrizione completa è disponibile su <https://www.bosch-connectivity.com/products/sense-connect-detect>

Collegamento all'SCD

1. Avviare SCD Sensor App, disponibile gratuitamente su Apple App Store o Google Play.
2. Attivare il Bluetooth dello smartphone.
3. Per attivare l'SCD, premere il pulsante sul dispositivo per 1 - 3 secondi.
4. Per individuare gli SCD visibili nella gamma, toccare "Search for devices".
5. Selezionare l'SCD e seguire le istruzioni sullo smartphone per finalizzare il pairing.

Configurazione dell'SCD

Per configurare l'app, seguire gli step riportati nell'app stessa.

**Avvertenza** Caratteri convenzionali

Per l'indirizzo email e il nome del dispositivo si possono utilizzare soltanto determinati caratteri.  
► Sono consentiti i caratteri seguenti: [A-Z][a-z][0-9][@,.,\/+\*\_] ]

Trasferimento dati

Collegare lo smartphone all'SCD "con l'aiuto della" relativa app. Per scaricare i dati esistenti nell'SCD, andare alla scheda "Logging" e premere "Download".

**Avvertenza** Trasferimento dati

► Il processo di scaricamento può richiedere diversi minuti. Il logging si interrompe per consentire di procedere con il trasferimento.

**Attenzione** Batteria al litio!

Il dispositivo contiene una batteria al litio. L'errata manipolazione della batteria può causare un incendio.  
► Se necessario, leggere e seguire le regolamentazioni vigenti in materia di trasporto.

**Avvertenza** Decadenza della garanzia!

L'apertura non autorizzata del rivestimento potrebbe presentare rischi per l'utente e renderà nulla qualsiasi garanzia.  
► Non aprire l'alloggiamento.

- Uso previsto
- Monitoraggio delle condizioni. L'integrazione di SCD110 nei controlli della macchina è vietata e rinuncia alla conformità CE.
- Dimensioni (L x P x H)  
► Peso
- Alimentazione
- Durata batteria
- Classe di protezione involucro
- Classe di protezione elettrica
- Capacità di memoria
- Attivazione BLE
- Standby: premendo il pulsante in funzione: ogni 3 ore
- CE, USA, Canada - per altri paesi chiedere il supporto BCDS
- Certificazioni ambientali
- RoHS, REACH

CONDIZIONI OPERATIVE

- Ambienti
- Residenziale, commerciale, industria-leggera e industriale
- Range di temperature operative
- Temperatura di conservazione
- Range umidità

PRECISIONE

- Temperatura
- Accelerazione
- Magnetonometro
- Luce

Nota: Le precisioni specificate si riferiscono ai sensori incorporati. la precisione e la reattività di SCD110 potrebbero differire dalle specifiche dei sensori in base alle condizioni di installazione e alle influenze ambientali.

RISOLUZIONE

- Temperatura
- Accelerazione
- Luce

COMUNICAZIONE

- Gamma di frequenza
- Potenza di trasmissione
- Bluetooth Low Energy
- Raggio

Smallimento in conformità alla direttiva RAEE 2012/19/EU



Unità, accessori e imballaggio dovranno essere selezionati a fini di riciclaggio eco-compatibile. Non smaltire il dispositivo nei rifiuti domestici o industriali! In conformità alla Linea guida europea 2012/19/EU, i dispositivi elettrici ed elettronici non più utilizzabili devono essere raccolti separatamente smaltiti nel rispetto dell'ambiente.

Dichiarazione di conformità

Bosch Connected Devices and Solutions GmbH dichiara con la presente che l'apparecchio radio di tipo "SCD110" è conforme alla Direttiva relativa agli apparecchi radio 2014/53/EU. Il testo integrale della dichiarazione di conformità UE è disponibile all'indirizzo Internet riportato di seguito: <https://www.bosch-connectivity.com/products/sense-connect-detect>

**Bosch Connected Devices and Solutions GmbH**  
**Ludwig-Erhard-Strabe 2**  
**72760 Reutlingen**  
**Germania**  
[www.bosch-connectivity.com](http://www.bosch-connectivity.com)

## Device specifications

- Intended use

SCD110 in machine controls is forbidden and Monitoring of conditions, integration of the

waives the CE conformity.

Dimensions (L x W x H) 71 mm x 62 mm x 10.5 mm

Weight 21 g

Power supply Non-rechargeable CR2450 3 V

Battery life up to 2 years depending on configuration

Enclosure protection class IP 67

Electrical protection class III

Memory capacity 1 MB

BLE activation Standby: On push of button

Country certifications CE, USA, Canada - for other countries ask the BCDs support

Environmental certifications RoHS, REACH

### OPERATING CONDITIONS

Environments Residential, commercial, light-industrial, and industrial

Operating temperature range -20 °C ... +85 °C

Recommended storage temperature +10°C ... +30°C

Humidity range 0 % RH ... 100 % RH

### ACCURACY

Temperature +/- 0.25°C

Acceleration up to +/-200g +/-10%

Magnetometer up to +/-1300 uT (X,Y-Axis); +/-2500 uT (Z-Axis) +/-5%

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

Temperature 0.1 °C

Acceleration 10 uT

Light 1 lux

### COMMUNICATION

Frequency range 2400 ... 2483.5 MHz

Tx Power 7 dBm max

Bluetooth Low Energy

Range up to 40 m (dependent on external influences)



The unit, accessories, and packaging should be sorted for environmental-friendly recycling. Do not dispose of the device into household or industrial waste! According to the European Guide-line 2012/19/EU, electric and electronic devices that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

### KOR

## 간편 사용자 매뉴얼

전체 설명은 다음에서 볼 수 있습니다:

https://www.bosch-connectivity.com/products/sense-connect-detect

## SCD에 연결하기

1. SCD Sensor App 앱을 시작하십시오. 애플 앱 스토어 또는 구글 플레이에서

무료로 SCD Sensor App 앱을 다운로드 받을 수 있습니다.

2. 스마트폰에서 블루투스를 켜십시오.

3. SCD를 켜려면 1-3초 동안 기기 버튼을 누르고 계십시오.

4. 범위 내에서 보이는 SCD를 찾으려면 “Search for devices(검색)”

를 탭하십시오.

5. SCD를 선택하고 스마트폰의 지침에 따라 페어링을 완료하십시오.

### SCD 설정하기

앱을 설정하려면 앱에서 보이 는 단계를 따라하십시오.

### 앱 설치

이 앱은 몇 기기 이틀도 모든 설정 공지만 사용할 수 있습니다.

▶ 다음과 같은 문자를 사용할 수 있습니다: [A-Z][a-z][0-9]["@;./\+\*~"]

**스트리밍** 기능은 앱으로 고정 장치를 켜서 값을 전송합니다. 해당 값은 “View(보기)” 버튼 탭을 시작합니다. 스트리밍을 시작하려면 “Streaming(스트리밍)” 버튼을 탭하십시오.

**로그** 기능은 SCD 내부 메모리에 최초의 데이터를 저장합니다. 데이터는 이후 SCD 앱으로 전송됩니다. 로그를 탭하십시오.

**한계값** 기능은 스트리밍되거나 로그된 값을 모니터링해 해당 임계값 이하의 값을 경고합니다. 한계값을 설정하려면 “Thresholds(경계값)”

를 탭하십시오.

### 데이터 전송

SCD 앱은 이용해 스마트폰과 SCD를 연결합니다. SCD에 있는 기존의 데이터를

누락하십시오.

▶ 다음으로 하시는 수 있습니다.
▶ “로그인(Logging)(로그)” 탭으로 가

“다운로드(Download)”를 누르십시오.

### 앱 알림

▶ 다음으로 하시는 수 있습니다.
▶ 알림을 계속하려면 포장을 멈추십시오.

### 주요 리튬 배터리

장치에는 리튬 배터리가 내장되어 있습니다. 배터리를 잘못 사용하면 화재와 폭발 위험이 있을 수 있습니다.

▶ 표 사용 가능한 공중 공간을 읽고 따르십시오.

### 환경에서 제로합니다.

▶ 하중을 옮기지 마십시오.

## 환경에서 제로합니다!

환경에서 제로합니다.
▶ 하중을 옮기지 마십시오.

▶ 하중을 옮기지 마십시오.

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## Declaration of conformity:

Bosch Connected Devices and Solutions GmbH hereby declares that the

equipment type “SCD110” complies with Radio Equipment Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: https://www.bosch-connectivity.com/products/sense-connect-detect

### Federal Communications Commission (FCC) Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

▶ Reorient or relocate the receiving antenna.

▶ Increase the separation between the equipment and receiver.

▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

▶ Consult the dealer or an experienced radio/TV technician for help.

### ISED Canada (IC) Notice

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

### Bosch Connected Devices and Solutions GmbH

72760 Reutlingen

Germany

www.bosch-connectivity.com

DE

## Kurzanleitung

Die ausführliche Beschreibung finden Sie unter:

https://www.bosch-connectivity.com/products/sense-connect-detect

### Verbindung mit dem SCD

1. Starten Sie die SCD Sensor App. Die finden Sie unter dem Begriff SCD Sensor App kostenlos in Ihrem Apple App Store oder Google Play Store.

2. Aktivieren Sie auf Ihrem Smartphone Bluetooth.

## 장치 사양

## 용도

조각 모니터링, 기계 제어 장치에 SCD110를 통합하는 것은 금지되어 있으며 CE 적합성을 포기합니다.

71 mm x 62 mm x 10.5 mm

21 g

비충전식 CR2450 3 V

Li/MnO2, 490 mAh

구형 및 사용에 따라 최대 2 년

IP 67

III

1 MB

대기: 버튼 누를식

가동: 매 3시간

CE, 미국, 캐나다 - 다른 국가의 경우 BCDs

환경 인증 RoHS, REACH

### 작동 조건

작동 온도 범위

-20 °C ... +85 °C

권장 저장 온도

습도 범위 0 % RH ... 100 % RH

### 정확도

온도 +/- 0.25°C

가속도 최대 +/-200g +/-10%

자력계 최대 +/-1300 uT (X,Y-Axis); +/-2500 uT (Z-Axis) +/-5%

빛 0 ... 188000 Lux +/-15%

참고: 임시된 정확도는 내장된 센서를 나타냅니다. SCD110의 정확도와 음압 센서 일치합니다.

### 배터리

온도 0.1 g

자력계 10 uT

빛 1 lux

### 통신

주파수 범위 2400 ... 2483.5 MHz

전송 전력 7 dBm max

범위 최대 40 m (외부 영향에 따라)



**WEEE Directive 2012/19/EU에 따라 폐기하십시오.**
본체, 부속품 및 포장재는 친환경 재활용을 위해 분리되어야 합니다. 장치를 가정용 또는 산업용 소회기로 폐기하지 마십시오! 재활용 기어드라인 2012/19/EU에 따라 더 이상 사용할 수 없는 전기 및 전자 장치는 별도로 수거해 환경에 올바른 방법으로 폐기해야 합니다.

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