

온라인 카탈로그 발췌:

sks-15/CU

최신 버전: 2026-09-03



sks

The smallest of its kind: The sks sensor in cubical housing.

하이라이트

- > Very small housing dimensions with two M3 threaded sleeves
- > Installation-compatible with many optical sensors > a true alternative for critical applications
- > IO-Link interface > for support of the new industry standard
- > Smart Sensor Profiles > more transparency between IO-Link Devices
- > Optionally with SoundPipe sks1 waveguide attachment
- > Improved temperature compensation > adjustment to working conditions within 45 seconds

기본 사항

- > 캐나다 및 미국 안전 표준에 대한 UL 인증
- > 1 switching output in pnp or npn variant
- > 1 Push-Pull switching output > pnp or npn basis
- > Analogue output 4-20 mA or 0-10 V
- > microsonic Teach-in using a button
- > 0.1 mm resolution
- > 20-30 V operating voltage

sks 센서

sks 센서들은 마이크로 소닉에서 가장 작은 초음파 센서이고 특별한 하우징 설계는 zws 센서 들에 비교하여 33%까지 감소하였습니다.



The sks ultrasonic sensor

The miniature housing of the sks ultrasonic sensor fits in constricted installation locations e.g. for sampling conductor boards and wafer in the electronics industry, for presence checks on conveyor bands or fill-level measurement in small containers. When capacitive or optical sensors come up against their physical limits, installation compatibility of ultrasonic sensors with many optical sensors enable their deployment: simply secured with two M3 screw sockets.

For the sks sensor family

three output versions are available:



1 Push-Pull switching output with IO-Link interface



1 switching output, optionally in pnp- or npn-circuitry



1 analogue output 4–20 mA or 0–10 V

The temperature compensation

of the analogue sensors profits from a significant improvement. The sensors reach their operating point only 45 seconds after activation of the operating voltage. We now compensate for the influence of self-heating and installation conditions. This brings improved precision shortly after activation of the supply voltage and in running operation.

The Teach-in button

on the top of the sensor allows for the convenient configuration of the desired switching distance and operating mode.

두개의 LED

2개의 LED는 센서의 동작 상태를 표시하여 줍니다.

스위칭 출력이 있는 큐브 센서에는 세 가지 작동 모드가 있습니다.

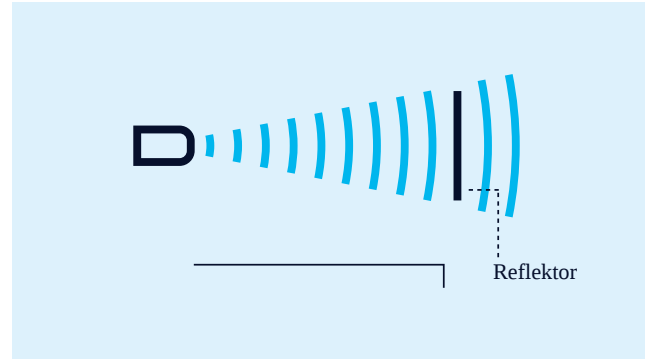
- 단일 스위칭 포인트
- 양방향 반사 장벽
- 윈도우 모드

The switching output is set by

positioning the object to be detected within the desired distance (1) to the sensor, pressing the button for approx. 3 seconds and then pressing it once more for approx. 1 second. Ready.



스위칭 포인트의 티치-인



2방향 반사 장벽의 티치-인

A two-way reflective barrier

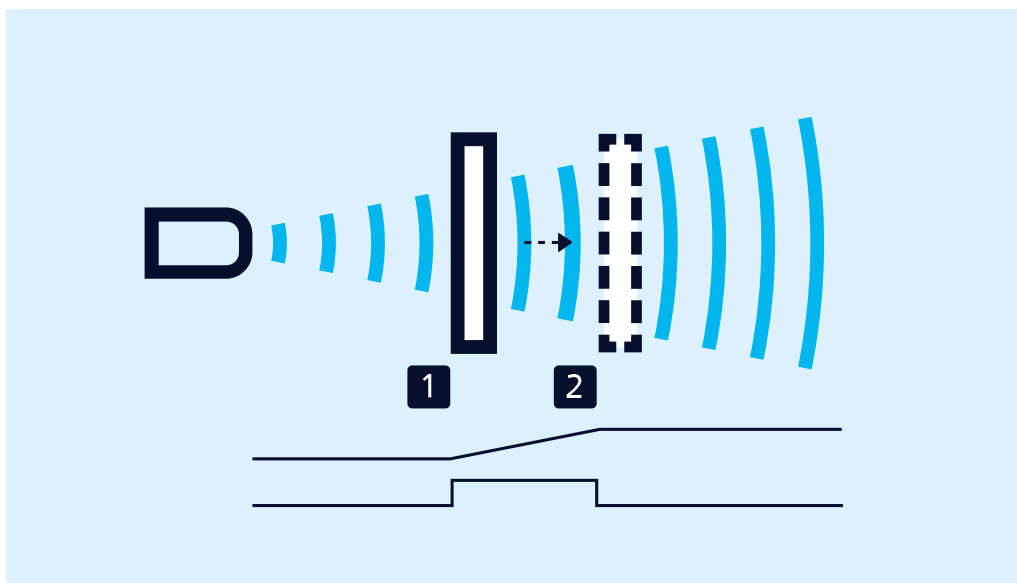
can be set up with the help of a permanently mounted reflector by mounting the sks sensor and the reflector. Then press the button for approx. 3 seconds and then pressing it once more for approx. 10 seconds. Now, the two-way reflective barrier has been set.

고정 장착된 반사경이 있는 2방향 반사 장벽의 티치-인

- 버튼 T2를 약 3초간 누릅니다.
- 그런 다음 버튼 T2를 다시 약 10초간 누릅니다.

Set the analogue output

by initially positioning the object to the detected on the sensor-close window limit (1), pressing the button for approx. 3 seconds, shifting the object to the sensor-distant window limit and pressing the button once more for approx. 1 second. Ready.



아날로그 측정영역 또는 검출영역 내 2 개의 스위칭 포인트의 티치-인

To set a window

with 2 switching points, proceed in the same way as for an analogue output.

NCC/NOC

증가/감소 아나로그 구간을 pin2를 통해 세트할수 있다.

SoundPipe sks1

intensively bundles the sound field and allows measurements in openings with small diameters. The SoundPipe sks1 (accessory) is pushed on the transducer of the sks.

IO-Link integrated

in version 1.1 for sensors with Push-Pull output. The sks-15/CF/A supports the Smart Sensor Profile.

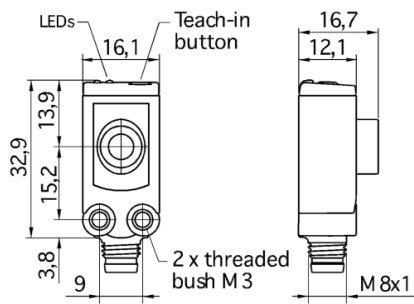
특별한 요구 사항이 있습니까?

우리과 함께, 당신은 개별 솔루션을 쉽게 찾을 수 있습니다. 이것처럼 간단한 일은 없습니다.

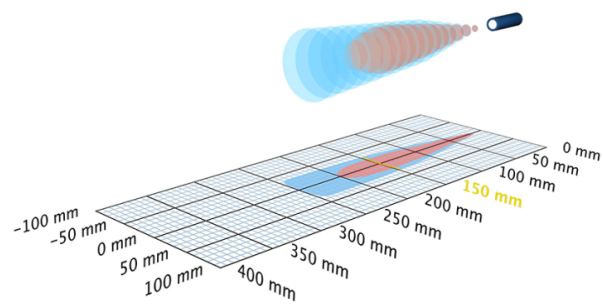
당신의 어플리케이션에 대하여 말씀해 주십시오: +49 231 97 51 51-82.

sks-15/CU

측척 도면



감지 영역



$\int$ 1 × 0-10 V模拟量输出

D 250 mm

디자인	胶体的
작동 모드/기본 기능	模拟距离测量
특이성	kleinste quaderförmige Bauform schlankes Schallfeld UL Listed

초음파 사양

측정값	回波传播时间
전송 주파수	380 kHz
비검출 영역	20 mm
동작 범위	150 mm
최대 범위	250 mm
분해능	0.10 mm
재현률	± 0.15 %
정밀도	± 1 % (内置温度漂移补偿)

전기적인 데이터

동작 전압 U _B	15 V bis 30 V DC, verpolfest
전압 변동	± 10 %
무부하 소비전류	≤ 25 mA
연결 타입	4芯M8接插件

출력

출력 1	模拟量电压输出：0-10 V, 短路保护，可切换，递增/递减
응답속도	24 ms
선지연 유용성	< 300 ms

입력

입력 1	com端输入
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하우징

재질	ABS
초음파 송신기	泡沫聚氨酯，玻璃填充的环氧树脂
EN60529에 따르는 보호등급	IP 67
동작온도	-25°C to +70°C
보관 온도	-40°C 到 +85°C
무게	8 g

기술 특징/ 특성

온도 보상	예
제어	1个按键
세팅을 위한 범위	Teach-in via push-button
Synchronisation	아니오
다중화	아니오
표시기	1 x LED 绿灯：工作, 1 x LED 黄灯：开关状态

액세서리

분리가능 액세서리	KST4A-2/M8 KST4A-5/M8 KST4G-2/M8 KST4G-5/M8 SoundPipe sks1
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핀 할당

