



온라인 카탈로그 발췌:

crm+130/F/TC/E

최신 버전: 2026-09-03



crm+

고품질 crm+ 센서는 1.4571의 스테인리스스틸 하우징 및 센싱 부에 필름 코팅이 된 제품입니다

하이라이트

- > Ultrasonic transducer protected by PEEK film > for simple cleaning and high resistance to wear
- > Stainless-steel housing
- > Digital display with direct measured value output in mm/cm or %
- > IO-Link interface > for support of the new industry standard
- > Numeric configuration of the sensor using digital display > permits the complete advance configuration of the sensor
- > Automatic synchronisation and multiplex operation > for simultaneous operation of up to ten sensors in close quarters
- > PNP 또는 NPN 1, 2 스위칭 출력
- > 1 or 2 switching outputs > in pnp variant
- > Analogue output 4–20 mA and 0–10 V > with automatic switching between current and voltage outputs
- > 5 detection ranges with a measurement range of 30 mm to 8 m
- > microsonic Teach-in using T1 or T2 buttons
- > 0.025 mm to 2.4 mm resolution
- > Temperature compensation
- > 9~30V 작동 전압
- > 링크컨트롤(LinkControl) > PC로 센서를 환경설정

기본 사항

Sensor membrane with wear-resistant protective film

In many filling processes, spray on the sensor membrane simply cannot be avoided. These sprays often harden so that after longer periods of operation contamination can only be removed from the sensor membrane by mechanical means. The new protective film of the crm+ sensors now makes it easy to remove caked-on soiling, such as hardened casting compound and cement spatter.

The protective film is also highly resistant to corrosive media. The threaded sleeve is made of 1.4571 stainless steel.



TouchControl with LED display - Wear-resistant PEEK protective film

There are three output stages

available for all five detection ranges:



1 switching output with Push-Pull circuitry



1 Schaltausgang in pnp-Schaltungstechnik 1 pnp switching output



2 pnp switching outputs



1 analogue output 4–20 mA and 0–10 V

스위칭 출력이 있는 큐브 센서에는 세 가지 작동 모드가 있습니다.

- › 단일 스위칭 포인트
- › 양방향 반사 장벽
- › 윈도우 모드

With TouchControl

all configuration can be done right at the sensor. The easily legible three-digit LED display continually shows the current distance value and automatically switches between millimetre and centimetre displays.

Setting a switching or analogue output

can optionally be carried out by numeric input of the desired distance values, or using a teach-in procedure. This permits the user to select the configuration method preferred. The crm+ sensors support synchronisation and multiplex operation and have extensive parameterisation options via LinkControl. For detailed information, please see at [mic+ sensors](#).

LinkControl

consists of the [LinkControl-Adapter LCA-2](#) and the LinkControl-Software and facilitates the configuration of the crm+ sensors via a PC or laptop with any conventional Windows® operating system.



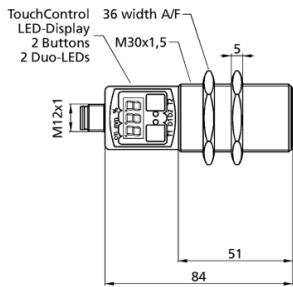
LCA-2를 통해 프로그래밍을 위하여 PC에 연결된 센서.

IO-Link integrated

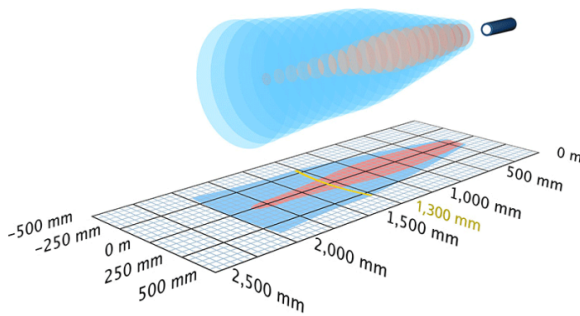
in version 1.1. The crm+ ultrasonic sensors are equipped with Smart Sensor Profile, which creates more transparency between IO-Link devices.

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측척 도면



감지 영역



1 x Push-Pull

2,000 mm

디자인	圆柱形 M30
작동 모드/기본 기능	IO-Link 接近开关/漫反射模式 反射板模式 窗口模式
특이성	高度耐化学性 不锈钢型号 显示器 IO-Link version 1.1 Smart Sensor Profile UL listed

초음파 사양

측정값	回波传播时间
전송 주파수	200 kHz
비검출 영역	200 mm
동작 범위	1,300 mm
최대 범위	2,000 mm
분해능	1 mm
재현률	± 0.15 %
정밀도	± 1 % (内置温度漂移补偿)

전기적인 데이터

동작 전압 U_B	9 - 30 V d.c., 反极性保护
전압 변동	± 10 %
무부하 소비전류	≤ 80 mA
연결 타입	5芯M12接插件

출력

출력 1	Push-Pull, $U_B - 3\text{ V}$, $-U_B + 3\text{ V}$, $I_{\max} = 100\text{ mA}$ Schließer/Öffner einstellbar, kurzschlussfest
스위칭 히스테리시스	20 mV
스위칭 주파수	8 Hz
응답속도	92 ms
선지연 유용성	< 300 ms

입력

입력 1	com端输入 同步输入
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하우징

재질	不锈钢, 塑料件, PBT, TPU
초음파 송신기	PEEK涂层, PTFE密封圈
EN60529에 따르는 보호등급	IP 67
동작온도	-25°C to +70°C
보관 온도	-40°C 到 +85°C
무게	150 g
다른 버전	电缆连接 (根据要求)

기술 특징/특성

온도 보상	예
제어	2个按键+LED显示 (触摸控制)
세팅을 위한 범위	Teach-in and numeric configuration via TouchControl LCA-2带有LinkCopy 或 LinkControl 软件 IO-Link
Synchronisation	예
다중화	예
표시기	3位数字 LED显示, 2 x 三色 LED

액세서리

분리가능 액세서리	KST5A-2/M12 KST5A-5/M12 KST5G-2/M12 KST5G-5/M12 BF-30 UF-90/M30 LCA-2 LCA-2 Koffer
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핀 할당

