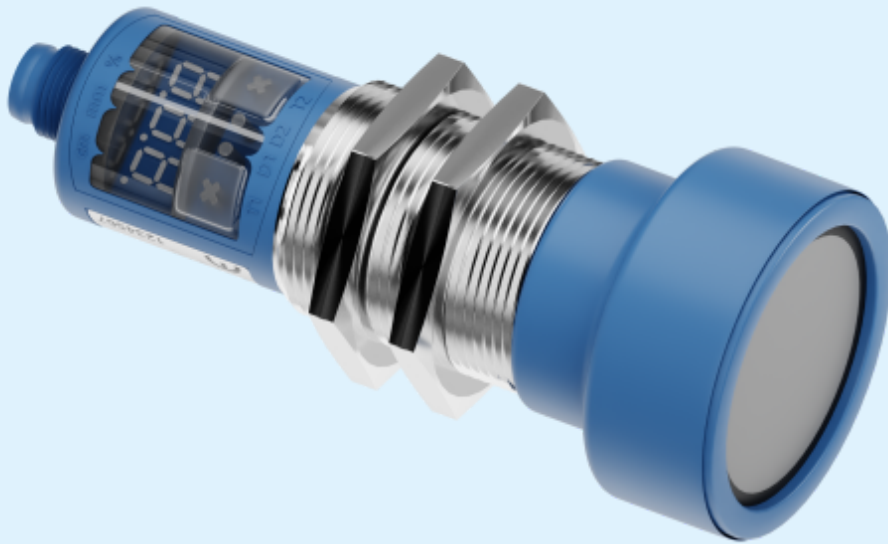




온라인 카탈로그 발췌:

**crm+340/IU/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.



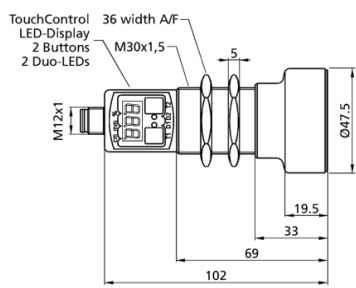
LCA-2를 통해 프로그래밍을 위하여 PC에 연결된 센서.

### ***IO-Link integrated***

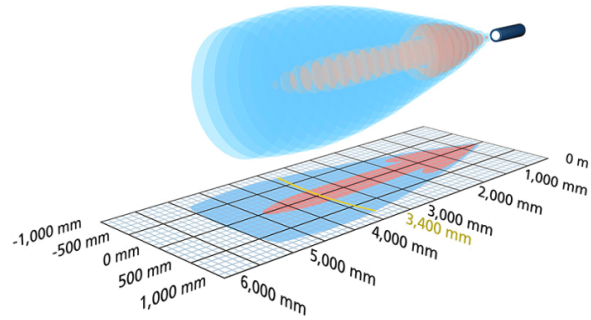
in version 1.1. The crm+ ultrasonic sensors are equipped with Smart Sensor Profile, which creates more transparency between IO-Link devices.

# crm+340/IU/TC/E

## 측척 도면



## 감지 영역



$\int$  1 × 4-20 mA + 0-10 V 模拟量输出

$\square \cdots |||||$  5,000 mm

|             |                        |
|-------------|------------------------|
| 디자인         | 圆柱形 M30                |
| 작동 모드/기본 기능 | 模拟距离测量                 |
| 특이성         | 高度耐化学性<br>不锈钢型号<br>显示器 |

## 초음파 사양

|        |                  |
|--------|------------------|
| 측정값    | 回波传播时间           |
| 전송 주파수 | 120 kHz          |
| 비검출 영역 | 350 mm           |
| 동작 범위  | 3.400 mm         |
| 최대 범위  | 5,000 mm         |
| 분해능    | 0.18 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    | 模拟量电流输出 : 4-20 mA / 电压输出: 0-10 V (当 $U_B \geq 15$ V), 短路保护, 可切换, 递增/递减 |
| 응답속도    | 172 ms                                                                 |
| 선지연 유용성 | < 380 ms                                                               |

## 입력

|      |                |
|------|----------------|
| 입력 1 | com端输入<br>同步输入 |
|------|----------------|

## 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                | 210 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<br>LCA-2带有LinkCopy 或 LinkControl 软件 |
| Synchronisation | 예                                                                                       |
| 다중화             | 예                                                                                       |
| 표시기             | 3位数字 LED显示, 2 x 三色 LED                                                                  |

## 액세서리

|           |                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------|
| 분리가능 액세서리 | KST5A-2/M12<br>KST5A-5/M12<br>KST5G-2/M12<br>KST5G-5/M12<br>BF-30<br>UF-90/M30<br>LCA-2<br>LCA-2 Koffer<br>SyncBox1 |
|-----------|---------------------------------------------------------------------------------------------------------------------|

## 핀 할당

