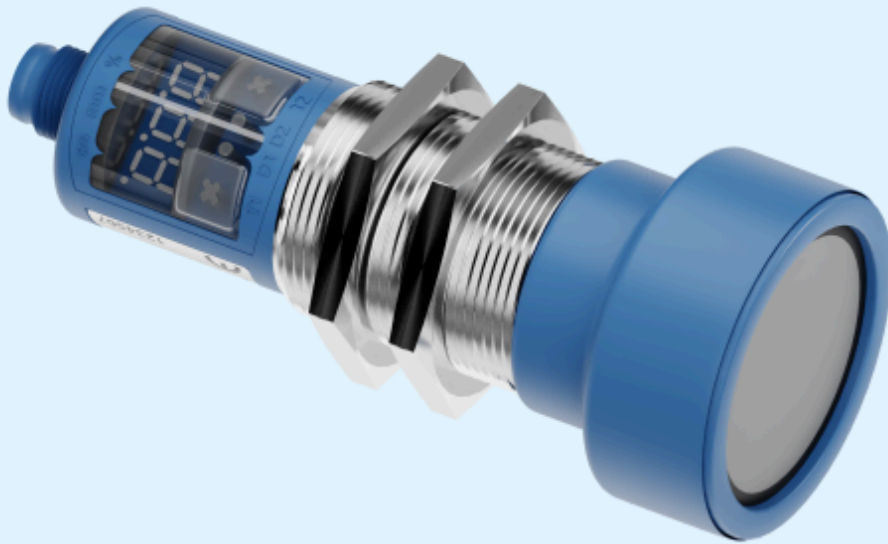




摘自我们的在线目录：

***crm+340/D/TC/E***

当前日期: 2026-09-03



## crm+

全能的crm+系列使用1.4571的不锈钢，超声换能器带有保护膜。

### 主要特点

- › 超声波换能器覆盖 PEEK保护膜 › 便于清理并有很高的抗腐蚀性
- › 不锈钢外壳
- › 测量值直接以mm/cm 或 %的方式通过LED显示出来
- › IO-Link 接口 › 支持最新的工业标准
- › 可通过数字显示器预设数值的传感器 › 实现传感器的预设
- › 自动同步和异步工作 › 最多可实现10个传感器的同步工作
- › 1个推挽开关量输出 › 兼容 pnp 或 npn
- › 1个或2个pnp开关量输出
- › 模拟量输出4-20mA和0-10V › 电流和电压输出可自动切换
- › 检测距离从 30 mm 到 8 m，存在5种检测量程
- › 可以使用T1或T2按钮来进行microsonic的示教
- › 0.025 mm ~2.4 mm 的分辨率
- › 温度补偿
- › 工作电压 9-30 V
- › LinkControl › 可以通过连接电脑来配置传感器参数

### 基本特点

## ***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

## **开关量输出的传感器有三种工作模式:**

- › 漫反射模式（单开关点模式）
- › 反射板模式
- › 窗口模式

## ***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.



传感器通过LCA-2连接到电脑进行编程

### **集成IO-Link**

在1.1版中，crm+传感器配备了智能传感器配置文件，从而使得IO-link设备之间的通讯更简便。

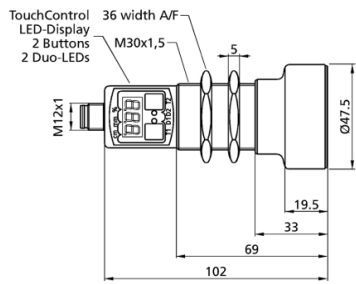
***You have special requirements?***

Nothing as simple as that.

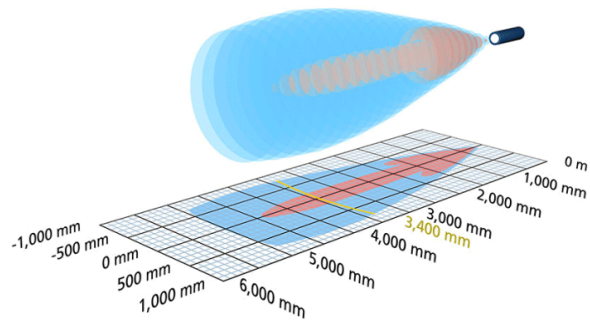
With us, you can easily find an individual solution. Let us talk about your application: +49 231 97 51 51-82.

# crm+340/D/TC/E

## 比例图



## 检测区域



|      |                                 |
|------|---------------------------------|
| 设计   | M30 실린더형                        |
| 工作模式 | 근접 스위치/반사모드<br>반사 센서<br>원도우 모드  |
| 特性   | 높은 내화확성<br>스테인리스 스틸 버전<br>디스플레이 |

## 超声波特性

|        |                     |
|--------|---------------------|
| 测量方法   | 에코 전파 시간            |
| 换能器频率  | 120 kHz             |
| 盲区     | 350 mm              |
| 检测范围   | 3.400 mm            |
| 最大检测范围 | 5,000 mm            |
| 分辨率    | 0.18 mm             |
| 重复精度   | ± 0.15 %            |
| 精度     | ± 1 % (온도 변화 내부 보상) |

## 电气数据

|            |                      |
|------------|----------------------|
| 工作电压 $U_B$ | 9 - 30 V d.c., 역결선보호 |
| 电压脉动       | ± 10 %               |
| 空载电流损耗     | ≤ 80 mA              |
| 连接类型       | 5-핀 M12 규격 플러그       |

## 输出量

|      |                                                                                         |
|------|-----------------------------------------------------------------------------------------|
| 输出 1 | 스위칭 출력<br>pnp: $I_{\text{최대}} = 500 \text{ mA}$ ( $U_B - 2V$ )<br>NOC/NCC 조정가능, 쇼트 보호회로 |
| 开关回滞 | 50 mm                                                                                   |
| 开关频率 | 4 Hz                                                                                    |
| 响应时间 | 172 ms                                                                                  |
| 上电延时 | < 380 ms                                                                                |

## 输入

|      |               |
|------|---------------|
| 输入 1 | com 입력 동기화 입력 |
|------|---------------|

## 外壳

|              |                             |
|--------------|-----------------------------|
| 材质           | 스테인리스 스틸, 플라스틱 부분, PBT, TPU |
| 超声波换能器       | PEEK 필름 코팅, PTFE O-ring     |
| 防护等级EN 60529 | IP 67                       |
| 工作温度         | -25°C to +70°C              |
| 储存温度         | -40°C to +85°C              |
| 重量           | 210 g                       |
| 更新版本         | 케이블 연결 (요청시)                |

## 技术特点/特性

|      |                                                                               |
|------|-------------------------------------------------------------------------------|
| 温度补偿 | 否                                                                             |
| 控制装置 | 2 푸쉬 버튼 + LED 디스플레이 (터치컨트롤)                                                   |
| 设定范围 | Teach-in and numeric configuration via TouchControl<br>LCA-2 with LinkControl |
| 同步   | 否                                                                             |
| 多通道的 | 否                                                                             |
| 指示灯  | 3-digit LED 디스플레이, 2 x 3색상의 LED                                               |

## 附件

|        |                                                                                                                     |
|--------|---------------------------------------------------------------------------------------------------------------------|
| 可配置的附件 | 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 |
|--------|---------------------------------------------------------------------------------------------------------------------|

引脚分配

