



# IDM141-411S RS-232 Kit

IDM

MOBILE HANDHELD SCANNERS

**SICK**  
Sensor Intelligence.



## Ordering information

| Type                   | part no. |
|------------------------|----------|
| IDM141-411S RS-232 Kit | 6080744  |

**Included in delivery:** Power supply unit (1), IDM141-411S (1), Connection cable (1), Base station (1), Rechargeable battery (1)

Other models and accessories → [www.sick.com/IDM](http://www.sick.com/IDM)



## Detailed technical data

## Features

|                           |                           |
|---------------------------|---------------------------|
| <b>Application</b>        | Standard application      |
| <b>Version</b>            | Standard Range            |
| <b>Scanner design</b>     | Wireless variant          |
| <b>Light source</b>       | LED, Visible, Red, 630 nm |
| <b>Reading distance</b>   | 20 mm ... 850 mm          |
| <b>Scanning frequency</b> | ≤ 500 Hz                  |
| <b>Code resolution</b>    | ≥ 0.076 mm                |

## Mechanics/electronics

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Supply voltage</b>         | 3.7 V DC ... 5 V <sup>1)</sup>      |
| <b>Current consumption</b>    | Operation: 180 mA<br>Standby: 80 mA |
| <b>Housing color</b>          | Black/gray                          |
| <b>Enclosure rating</b>       | IP52                                |
| <b>Weight</b>                 | 230 g, incl. rechargeable battery   |
| <b>Dimensions (L x W x H)</b> | 97.8 mm x 70.5 mm x 156.2 mm        |

<sup>1)</sup> Rechargeable battery operation.

## Performance

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Readable code structures</b> | 1D codes, Stacked                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bar code types</b>           | Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, GS1 DataBar, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC / EAN / JAN, UPC / EAN / JAN (with addition), Telepen, MSI/Plessey, UK/Plessey, Australian Post, China Post, German Post, US Planet, US Postnet, British Post, Intelligent Mail, Japan Post, Korea Post, Dutch KIX Post, Posi LAPA 4 State Code |
| <b>Stacked code types</b>       | PDF417, MicroPDF417, Composite Code                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Battery power</b>            | Over 60,000 scans with full battery                                                                                                                                                                                                                                                                                                                                                                                     |

|                    |                    |
|--------------------|--------------------|
| <b>Code buffer</b> | 80,000 Codes (EAN) |
|--------------------|--------------------|

## Interfaces

|                               |                                                                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ethernet</b>               | ✓ , TCP/IP                                                                                                                                                    |
| Type of fieldbus integration  | Optional, over external connection module CDF600-2                                                                                                            |
| <b>PROFINET</b>               | ✓                                                                                                                                                             |
| Type of fieldbus integration  | Optional over external fieldbus module CDF600-2                                                                                                               |
| Function                      | PROFINET Single Port, PROFINET Dual Port                                                                                                                      |
| <b>EtherCAT®</b>              | ✓                                                                                                                                                             |
| Type of fieldbus integration  | Optional over external fieldbus module CDF600                                                                                                                 |
| <b>Serial</b>                 | ✓ , RS-232 TTL                                                                                                                                                |
| <b>PROFIBUS DP</b>            | ✓                                                                                                                                                             |
| Type of fieldbus integration  | Optional over external fieldbus module CDF600-2                                                                                                               |
| <b>Bluetooth</b>              | ✓                                                                                                                                                             |
| Remark                        | Bluetooth™ V4.0, 2.402 ... 2.4830 GHz                                                                                                                         |
| Function                      | Wireless operating range up to 100 m (free view), batch function for expansion of the wireless radius, up to seven scanners communicate with one base station |
| <b>Optical indicators</b>     | 2 LEDs (good read, charge of battery , radio connection status)                                                                                               |
| <b>Acoustic indicators</b>    | Beeper, can be switched off                                                                                                                                   |
| <b>Vibration</b>              | No                                                                                                                                                            |
| <b>Configuration software</b> | IDM Setup Tool                                                                                                                                                |

## Ambient data

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| <b>Shock resistance</b>              | 25 drops from 1.8 m height on concrete |
| <b>Ambient operating temperature</b> | -10 °C ... +50 °C                      |
| <b>Storage temperature</b>           | -40 °C ... +70 °C                      |
| <b>Permissible relative humidity</b> | ± 95 %, Non-condensing                 |
| <b>Ambient light immunity</b>        | 100,000 lx                             |

## General notes

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| <b>Items supplied</b> | The rechargeable battery is included with delivery |
| <b>Note</b>           | Not free of paint wetting impairment substances.   |

## Certificates

|                                                                              |   |
|------------------------------------------------------------------------------|---|
| <b>EU declaration of conformity</b>                                          | ✓ |
| <b>UK declaration of conformity</b>                                          | ✓ |
| <b>ACMA declaration of conformity</b>                                        | ✓ |
| <b>China-RoHS</b>                                                            | ✓ |
| <b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b> | ✓ |
| <b>Bluetooth</b>                                                             | ✓ |

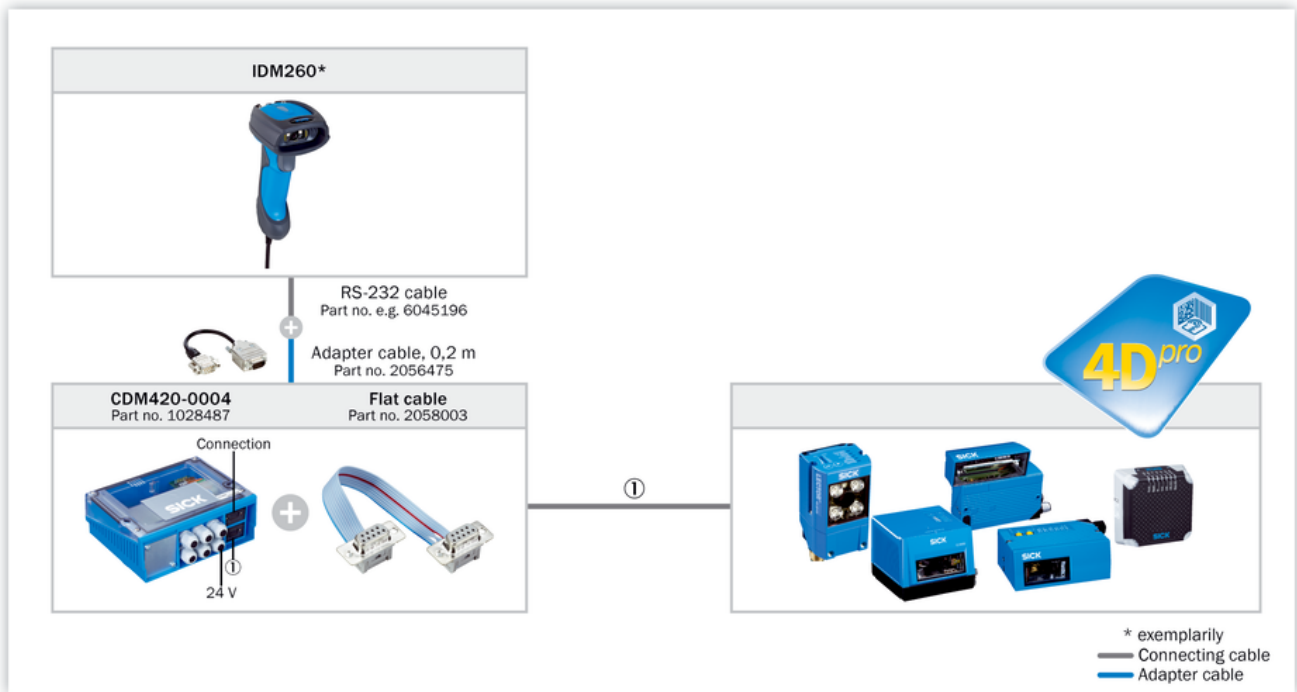
## Classifications

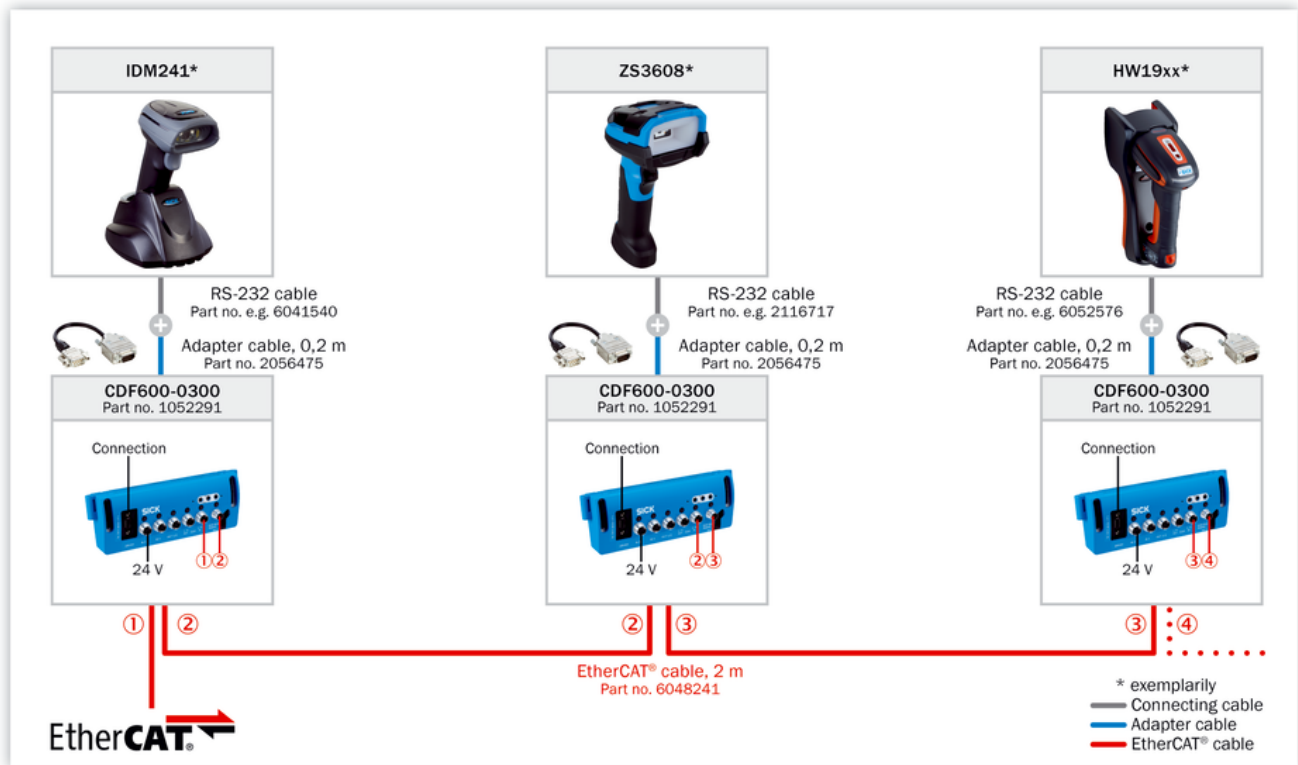
|                     |          |
|---------------------|----------|
| <b>ECLASS 5.0</b>   | 27280101 |
| <b>ECLASS 5.1.4</b> | 27280101 |
| <b>ECLASS 6.0</b>   | 27280101 |

|                       |          |
|-----------------------|----------|
| <b>ECLASS 6.2</b>     | 27280101 |
| <b>ECLASS 7.0</b>     | 27280101 |
| <b>ECLASS 8.0</b>     | 27280101 |
| <b>ECLASS 8.1</b>     | 27280101 |
| <b>ECLASS 9.0</b>     | 27280101 |
| <b>ECLASS 10.0</b>    | 27280101 |
| <b>ECLASS 11.0</b>    | 27280101 |
| <b>ECLASS 12.0</b>    | 27280101 |
| <b>ETIM 5.0</b>       | EC002550 |
| <b>ETIM 6.0</b>       | EC002550 |
| <b>ETIM 7.0</b>       | EC002550 |
| <b>ETIM 8.0</b>       | EC002550 |
| <b>UNSPSC 16.0901</b> | 43211701 |

### Connection diagram AUX looping

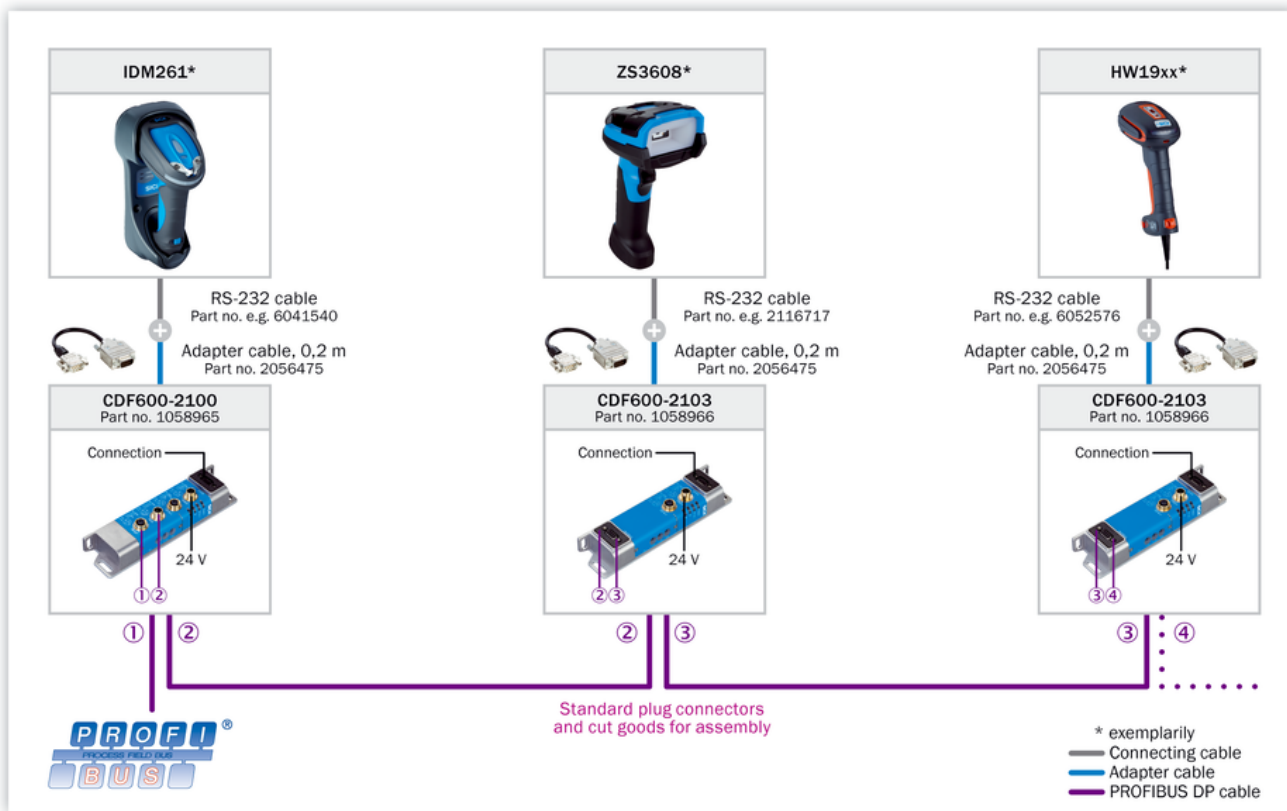
#### Looping-in via AUX



Connection diagram EtherCAT<sup>®</sup>EtherCAT<sup>®</sup>

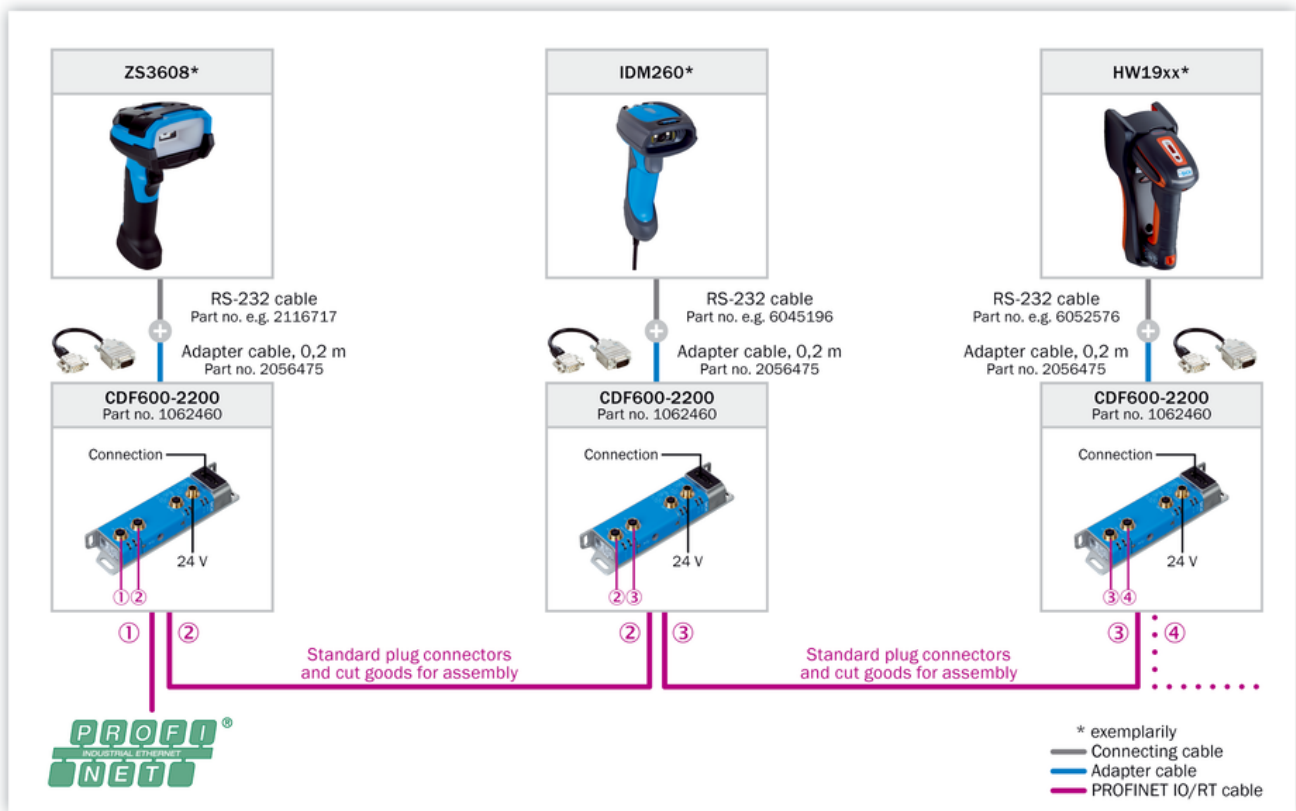
## Connection diagram PROFIBUS DP

### PROFIBUS DP



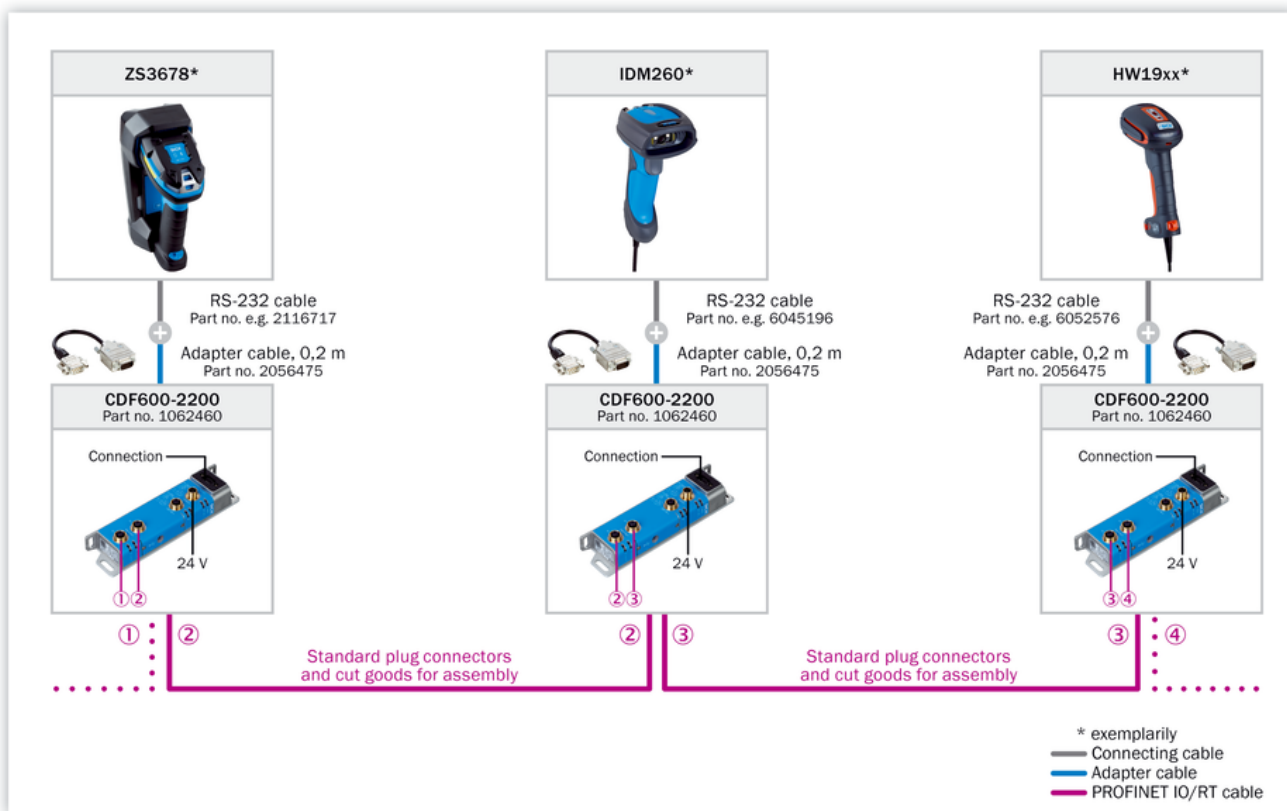
## Connection diagram PROFINET IO/RT

## PROFINET IO/RT



## Connection diagram Ethernet TCP/IP

### Ethernet TCP/IP



## Selection Guide



\*) For EtherNet/IP third party gateway is required from e.g. Comtrol or HMS (requires local sourcing).

Recommended accessories

Other models and accessories → [www.sick.com/IDM](http://www.sick.com/IDM)

|                                                                                   | Brief description                                                                                                                                                                                                                                                                                                                                                             | Type                           | part no. |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|
| connectors and cables                                                             |                                                                                                                                                                                                                                                                                                                                                                               |                                |          |
|  | <ul style="list-style-type: none"><li>• <b>Connection type head A:</b> Male connector, D-Sub, 9-pin</li><li>• <b>Connection type head B:</b> Male connector, D-Sub, 15-pin</li><li>• <b>Items supplied:</b> Incl. 24V/5V DC converter</li><li>• <b>Cable:</b> 0.3 m</li><li>• <b>Note:</b> For handheld scanners to CDB620/CDM420/CDF600/CDF600-2, adapter AUX port</li></ul> | YMH-DAC-C30XXMDSA9             | 2056475  |
| integration modules and adapters                                                  |                                                                                                                                                                                                                                                                                                                                                                               |                                |          |
|  | <ul style="list-style-type: none"><li>• <b>Description:</b> Connection kit for connecting a hand-held scanner to a PROFINET (Siemens) interface</li></ul>                                                                                                                                                                                                                     | Hand-held scanner PROFINET kit | 1101488  |

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is “Sensor Intelligence.”**

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)