



# IDM160-300S

IDM

MOBILE HANDHELD SCANNERS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
IDM160-300S	6054544

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



## Detailed technical data

### Features

<b>Version</b>	Standard Range
<b>Application</b>	Industrial application
<b>Scanner design</b>	Cable connection variant
<b>Light source</b>	LED, Visible, Red, 630 nm
<b>Reading distance</b>	20 mm ... 850 mm <sup>1)</sup>
<b>Scanning frequency</b>	≤ 500 Hz
<b>Code resolution</b>	≥ 0.076 mm

<sup>1)</sup> For details see reading field diagram.

### Mechanics/electronics

<b>Supply voltage</b>	5 V DC, ± 10 %
<b>Current consumption</b>	Operation (vibration activated): 230 mA Operation (vibration deactivated): 180 mA Standby: 80 mA
<b>Housing color</b>	Blue, gray
<b>Enclosure rating</b>	IP65
<b>Weight</b>	208 g, without cable
<b>Dimensions (L x W x H)</b>	104 mm x 76.3 mm x 176 mm

### Performance

<b>Readable code structures</b>	1D codes
<b>Bar code types</b>	Codabar, Code 39, Code 32, UPC-A, UPC-E, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, Code 128, UCC/EAN-128, Code 11, Code 93, German ITF Postal Code, Mainland China Postal Code, Telepen, MSI/Plessey, UK/Plessey, Limited/Expanded GS1 DataBar, Code 39 Trioptic, IATA, UPC / EAN / JAN (with addition)

### 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>USB</b>	✓
Function	Keyboard wedge, COM-Port emulation
<b>PS/2</b>	✓
Function	Keyboard wedge
<b>Optical indicators</b>	2 LEDs (operational status, good read)
<b>Acoustic indicators</b>	Beeper, can be switched off
<b>Vibration</b>	Yes
<b>Configuration software</b>	IDM Setup Tool

#### Ambient data

<b>Shock resistance</b>	50 drops from 2 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

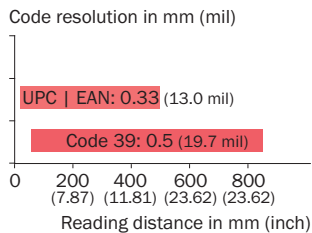
<b>Note</b>	A connecting cable and possibly a power supply unit are still required for commissioning.
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#### Classifications

<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

## Reading field diagram

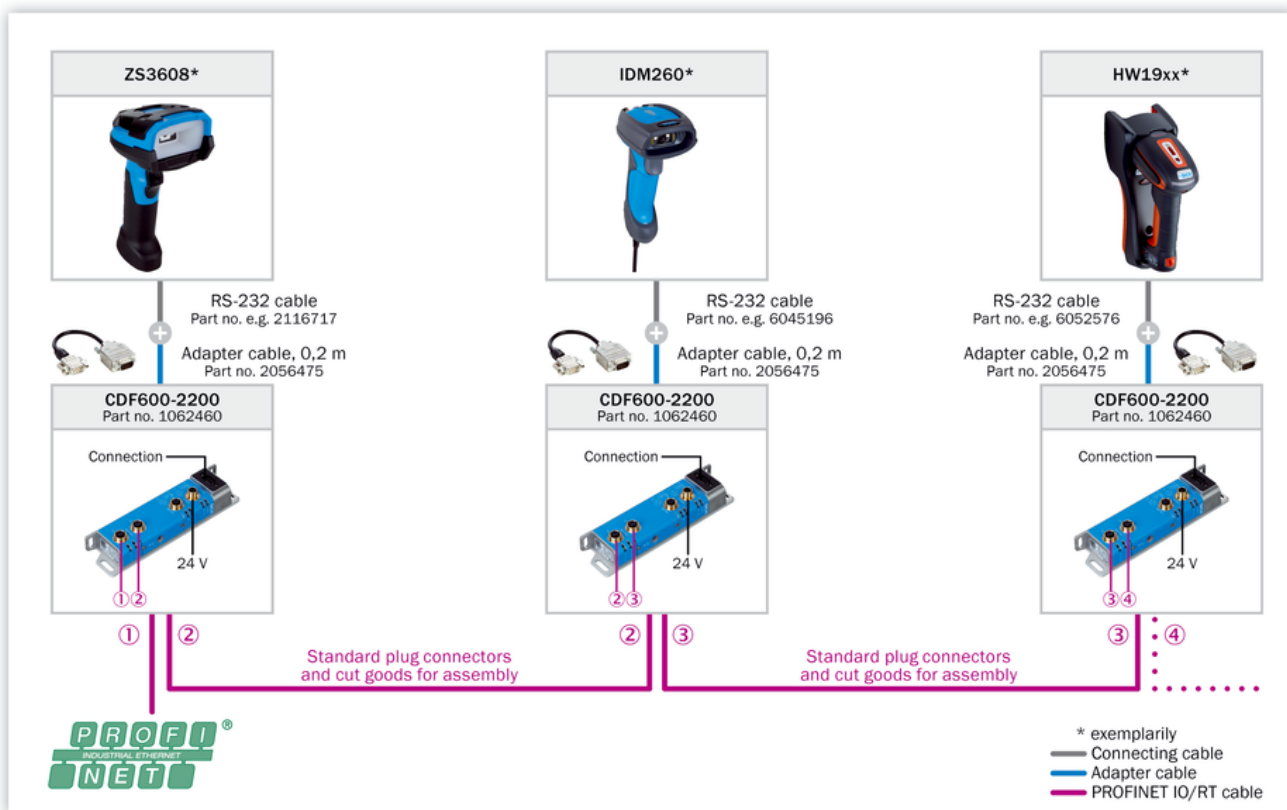
IDM14x-3xxS Standard Range IDM16x-3xxS Standard Range



## Connection diagram

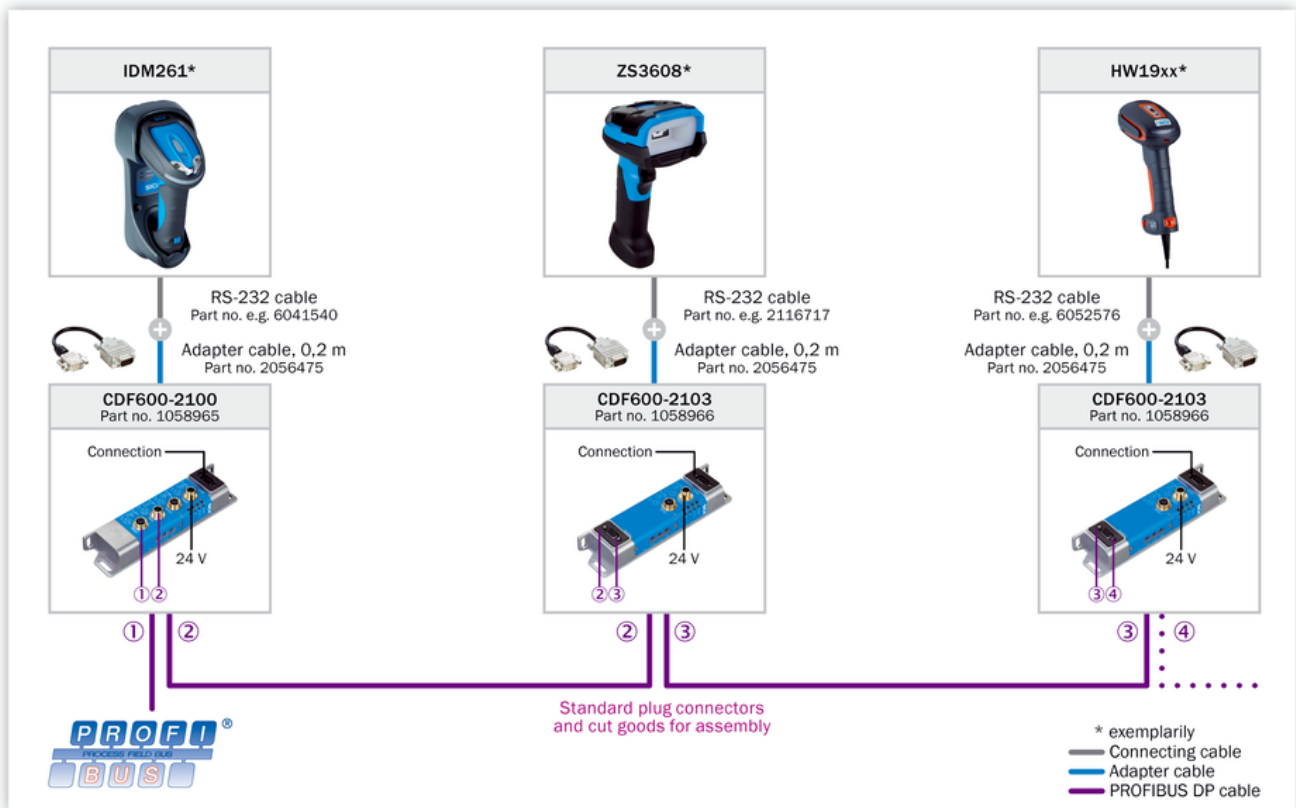
PROFINET IO/RT

### PROFINET IO/RT



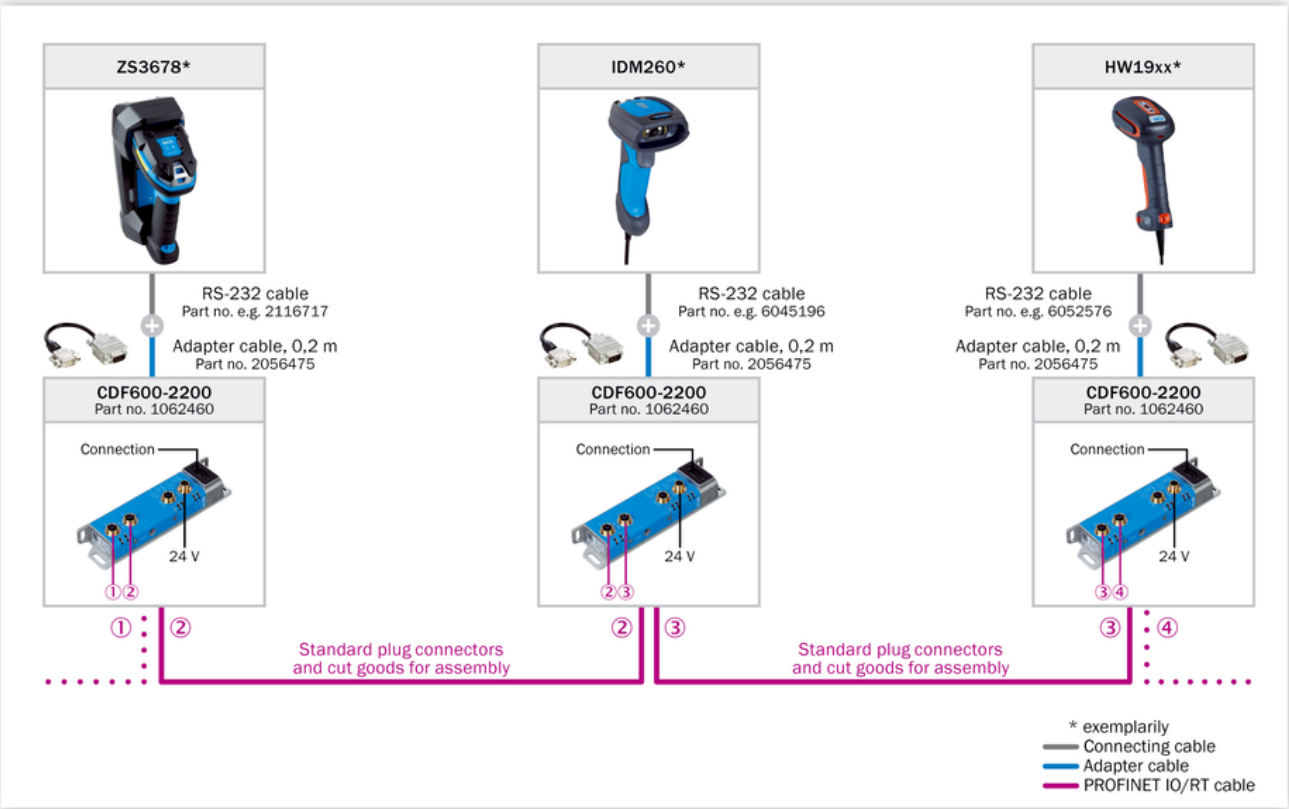
PROFIBUS DP

PROFIBUS DP



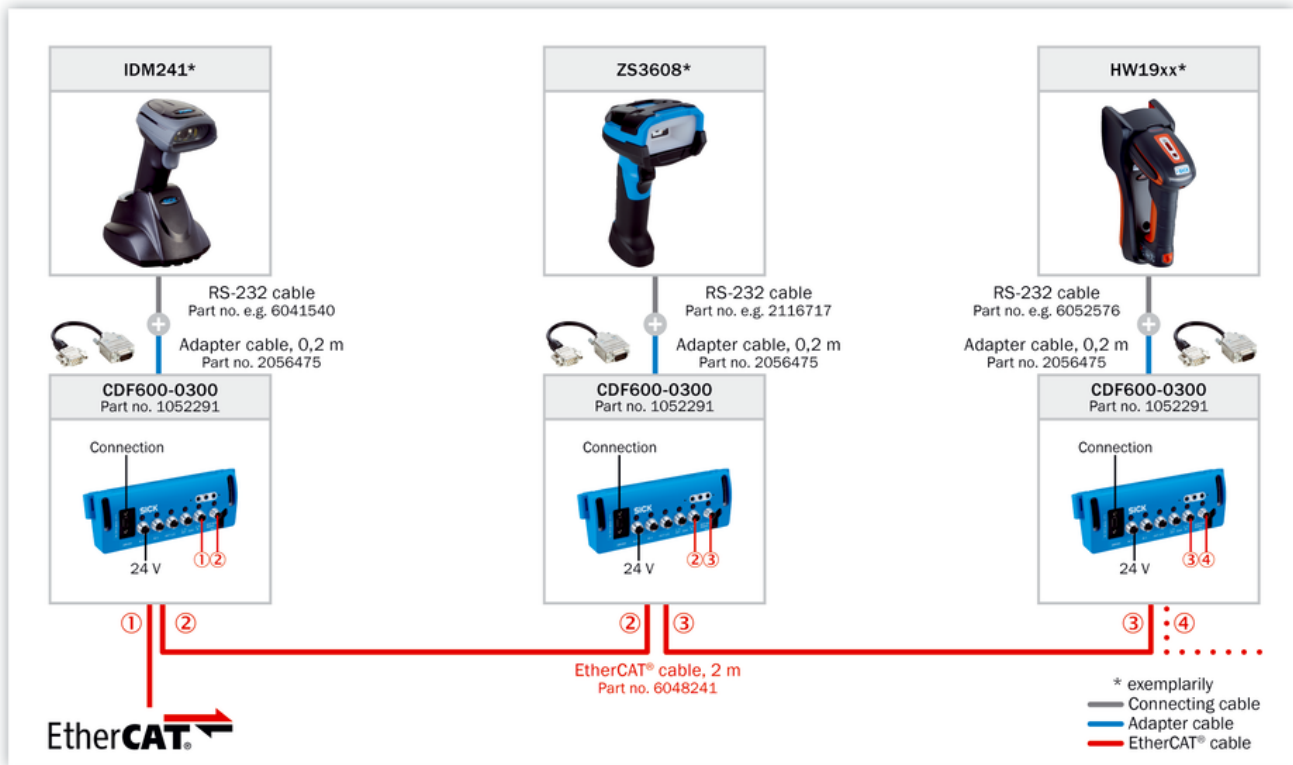
Ethernet TCP/IP

Ethernet TCP/IP



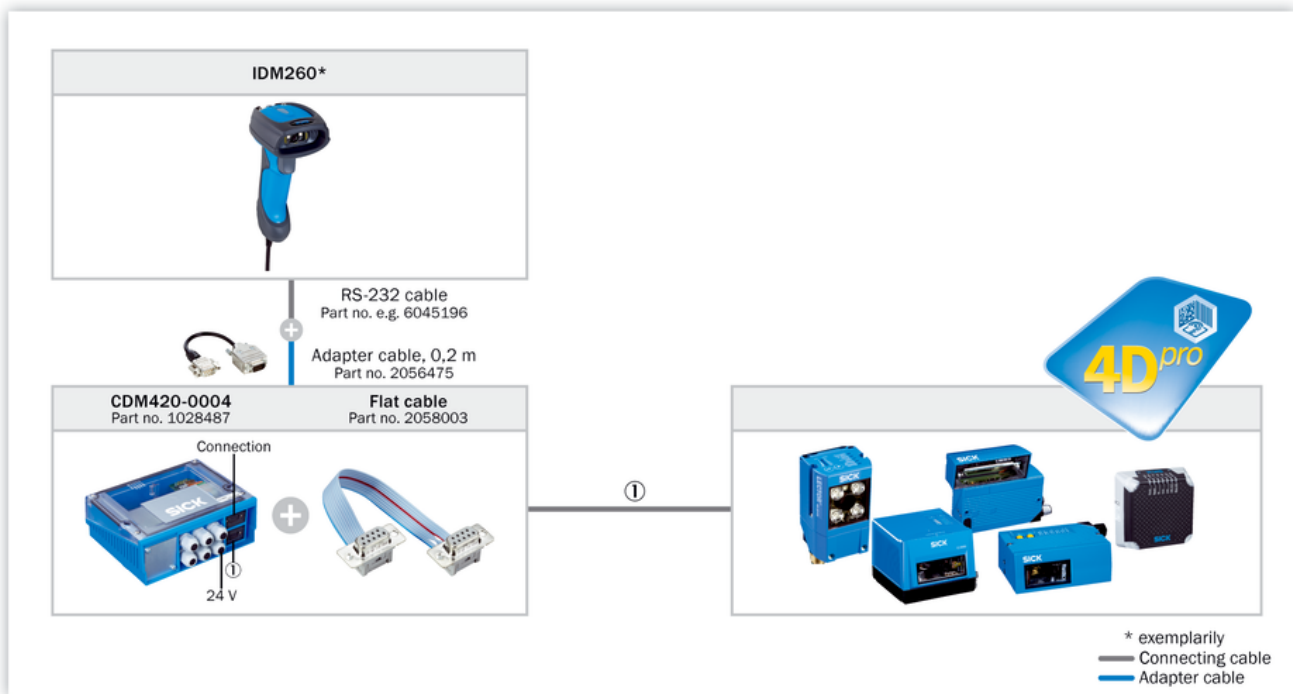
EtherCAT®

EtherCAT®



AUX looping

Looping-in via AUX






## Selection Guide



## Recommended accessories

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

	Brief description	Type	Part no.
Fieldbus modules			
	Connection kit for connecting a hand-held scanner to a PROFINET (Siemens) interface	Hand-held scanner PROFINET kit	1101488
	Adapter for connecting a handheld scanner to CDB620 / CDM420 / CDF600 / CD-F600-2, D-Sub 9-pin male connector, D-Sub 15-pin male connector, including 24V / 5V DC converter, AUX port adapter, for handheld scanners to CDB620/CDM420/ CDF600/CD-F600-2, adapter AUX port	YMHDAC-C30XXXMDSA9	2056475
Other mounting accessories			
	Tripod mount	Stand mount	6045193
	Desk holder	Table mount	6045192

	Brief description	Type	Part no.
Plug connectors and cables			
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, D-Sub, 9-pin, straight</li> <li>• <b>Connection type head B:</b> Male connector, RJ45</li> <li>• <b>Signal type:</b> RS-232</li> <li>• <b>Cable:</b> 1.8 m, straightened cable</li> <li>• <b>Description:</b> RS-232, unshielded</li> <li>• <b>Note:</b> Voltage via pin 9 or external power supply required</li> </ul>	Connection cable	6045196
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Male connector, USB-A</li> <li>• <b>Connection type head B:</b> Male connector, RJ45</li> <li>• <b>Signal type:</b> USB</li> <li>• <b>Cable:</b> 1.8 m, straightened cable</li> <li>• <b>Description:</b> USB, unshielded</li> <li>• <b>Note:</b> For keyboard wedge or USB Com Port Emulation</li> </ul>	Connection cable	6045195
	Power supply, input AC 100 ... 240 V, output DC 5 V/2 A (necessary when using RS-232 TTL cable, does not fulfill medical standard EN 60601/ IEC 60601))	Power supply unit	6036722

## Recommended services

Additional services → [www.sick.com/IDM](http://www.sick.com/IDM)

	Type	Part no.
Extended warranty		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors</li> <li>• <b>Range of services:</b> The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery).</li> <li>• <b>Duration:</b> Five-year warranty from delivery date.</li> </ul>	Extended warranty for a total of five years from delivery date	1680671

## 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)