



# HW1991ISR-3USB-5

HW19

MOBILE HANDHELD SCANNERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
HW1991ISR-3USB-5	2123087

**Included in delivery:** Base station (1), USB cable (1), HW1991ISR-3 (1)

Other models and accessories → [www.sick.com/HW19](http://www.sick.com/HW19)

### Detailed technical data

#### Features

<b>Application</b>	Industrial application
<b>Version</b>	Standard Range
<b>Scanner design</b>	Wireless variant
<b>Sensor resolution</b>	1,280 px x 800 px
<b>Light source</b>	LED, Visible, Red, 625 nm
<b>Alignment aid</b>	Laser, Red, 655 nm
<b>Reading distance</b>	0 mm ... 837 mm
<b>Code resolution</b>	≥ 0.076 mm <sup>1)</sup> ≥ 0.152 mm <sup>2)</sup>

<sup>1)</sup> Valid for Code 39.

<sup>2)</sup> Valid for Data Matrix code.

#### Mechanics/electronics

<b>Supply voltage</b>	4 V DC ... 5.5 V DC
<b>Current consumption</b>	Charging (5 V DC): 1 A Standby: 120 mA
<b>Housing material</b>	Plastic (UL 94 V-0)
<b>Housing color</b>	Orange, gray
<b>Enclosure rating</b>	IP65 IP67
<b>Weight</b>	405 g, incl. rechargeable battery
<b>Dimensions (L x W x H)</b>	100 mm x 76 mm x 192 mm

#### Performance

<b>Readable code structures</b>	1D codes, 2D codes, Stacked, Digimarc®
<b>Bar code types</b>	Code 39, Code 39 Trioptic, Code 32, Code 93, Code 11, Codabar, Code 128, GS1-128 / EAN 128, UPC / EAN / JAN (with addition), MSI/Plessey, UK/Plessey, IATA, Interleaved 2 of 5, Standard and Industrial 2 of 5, Matrix 2 of 5, Telepen, GS1 DataBar, Australian Post, China Post, German Post, US Planet, US Postnet, British Post, Intelligent Mail, Japan Post, Korean Post, Dutch KIX Post
<b>2D code types</b>	Data Matrix, QR code, MicroQR-Code, Aztec, MaxiCode, Digimarc, DOT Code, CodaBlock A/F, GS1, Chinese Sensible Code, OCR symbologies

<b>Stacked code types</b>	PDF417, MicroPDF417, Code 49, Code 16K, Composite, Codablock F
<b>Code alignment</b>	Omni-directional
<b>Horizontal motion tolerance</b>	Typ. 450 cm/s
<b>Battery power</b>	Up to 50,000 scans when fully charged, 14 h continuous operation at 1 scan/s
<b>Code buffer</b>	5,000 Codes (EAN, for scanning in batch mode)

## Interfaces

<b>USB</b>	✓
Function	Keyboard wedge, COM-Port emulation
<b>Optical indicators</b>	3 LEDs (good read, charge of battery , radio connection status)
<b>Acoustic indicators</b>	Beeper, can be switched off
<b>Vibration</b>	Yes
<b>Configuration software</b>	EZConfig Tool (≥ V.4.5.35)

## Ambient data

<b>Shock resistance</b>	50 drop samples at -30 °C ... +50 °C from 2 m height on concrete 20 drop samples at 25 °C, 55% rel. air humidity onto concrete from a height of 2.4 m Onto concrete from a height of 3 m
<b>Ambient operating temperature</b>	-20 °C ... +50 °C
<b>Storage temperature</b>	-40 °C ... +70 °C
<b>Relative humidity</b>	95 %, Non-condensing
<b>Ambient light immunity</b>	100,000 lx
<b>Bar code print contrast (PCS)</b>	≥ 20 %

## General notes

<b>Items supplied</b>	The rechargeable battery is included with delivery
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## Certificates

<b>UN38.3 Test Summary Report</b>	✓
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## Classifications

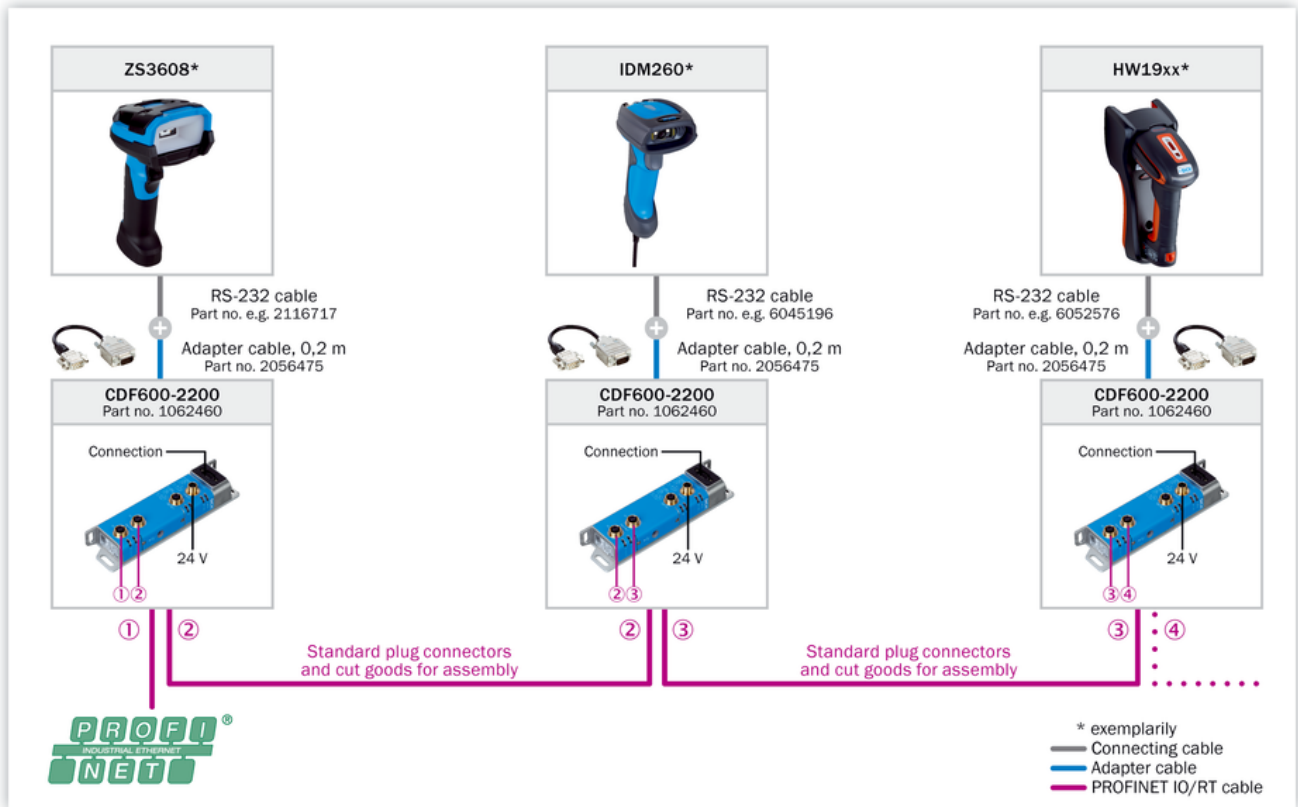
<b>ECLASS 5.0</b>	27280101
<b>ECLASS 5.1.4</b>	27280101
<b>ECLASS 6.0</b>	27280101
<b>ECLASS 6.2</b>	27280101
<b>ECLASS 7.0</b>	27280101
<b>ECLASS 8.0</b>	27280101
<b>ECLASS 8.1</b>	27280101
<b>ECLASS 9.0</b>	27280101
<b>ECLASS 10.0</b>	27280101
<b>ECLASS 11.0</b>	27280101
<b>ECLASS 12.0</b>	27280101
<b>ETIM 5.0</b>	EC002550
<b>ETIM 6.0</b>	EC002550
<b>ETIM 7.0</b>	EC002550
<b>ETIM 8.0</b>	EC002550

UNSPSC 16.0901

43211701

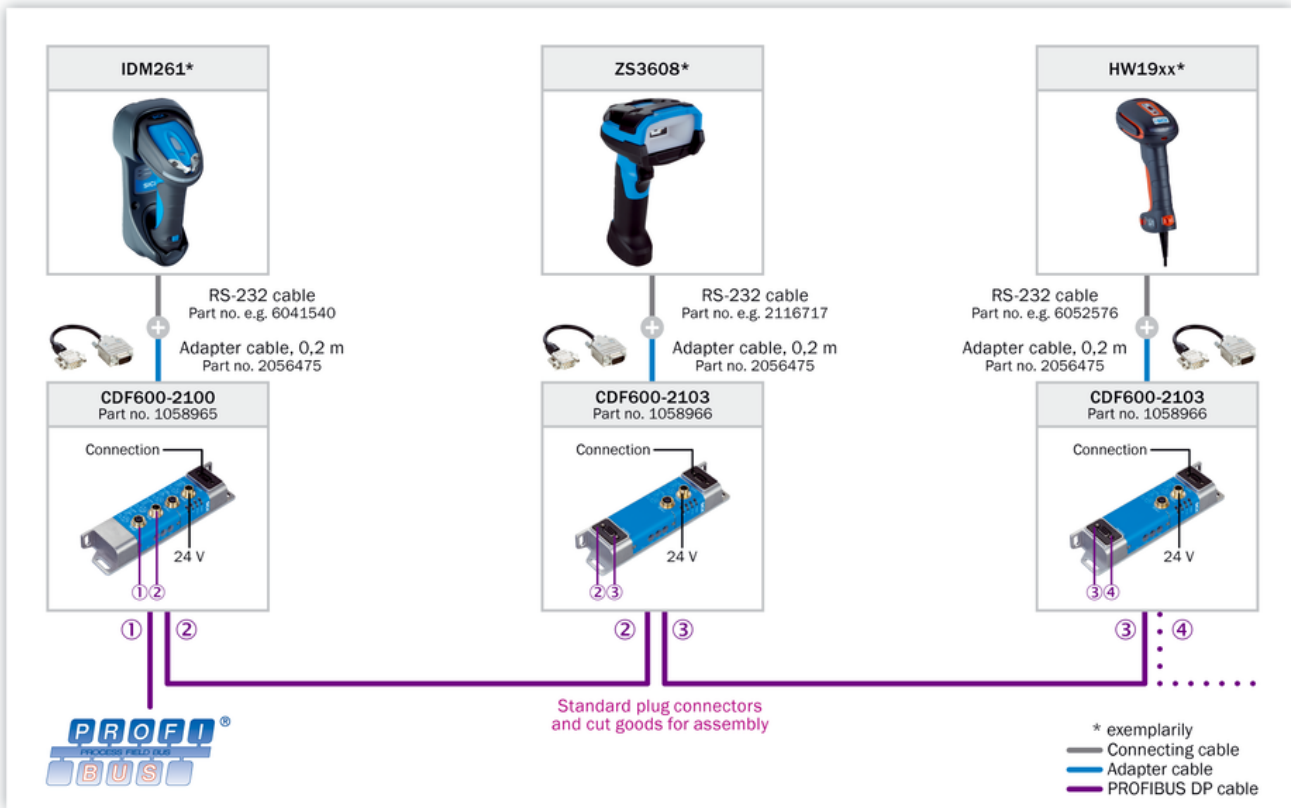
### Connection diagram PROFINET IO/RT

#### PROFINET IO/RT



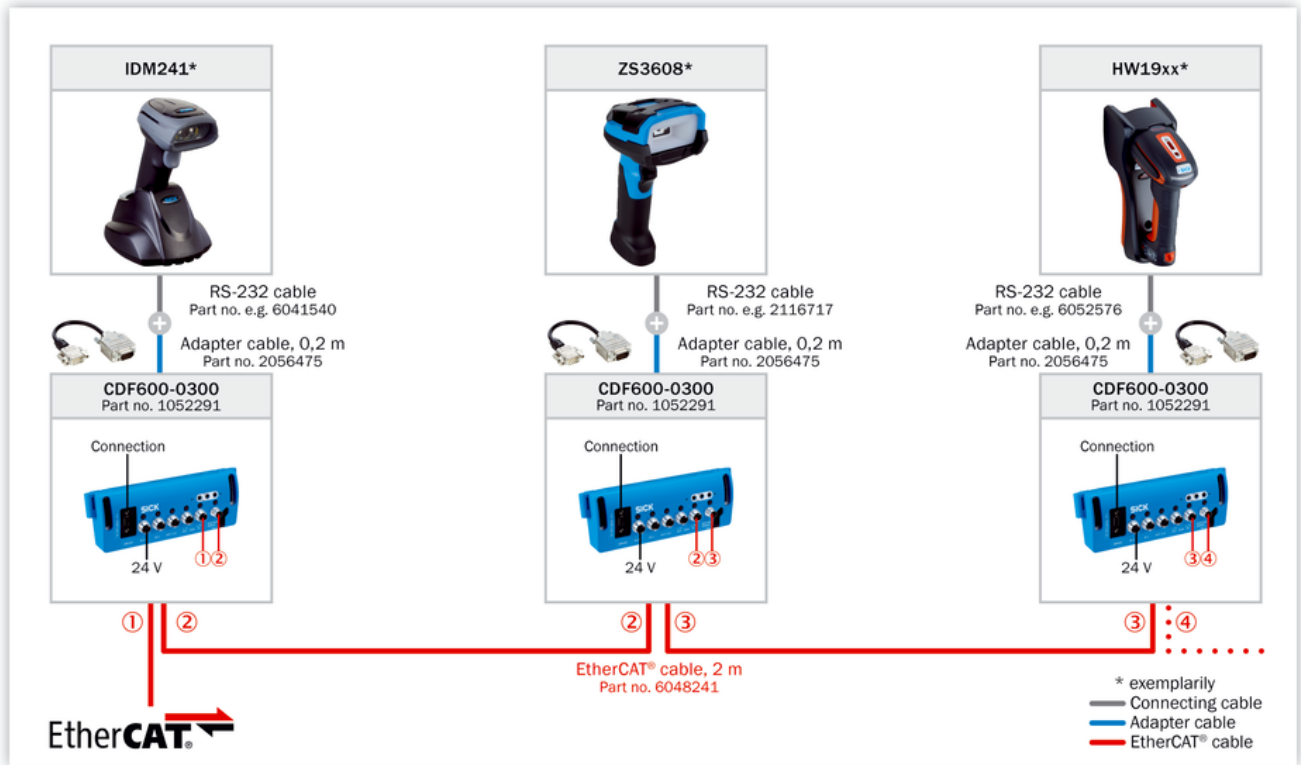
Connection diagram PROFIBUS DP

PROFIBUS DP



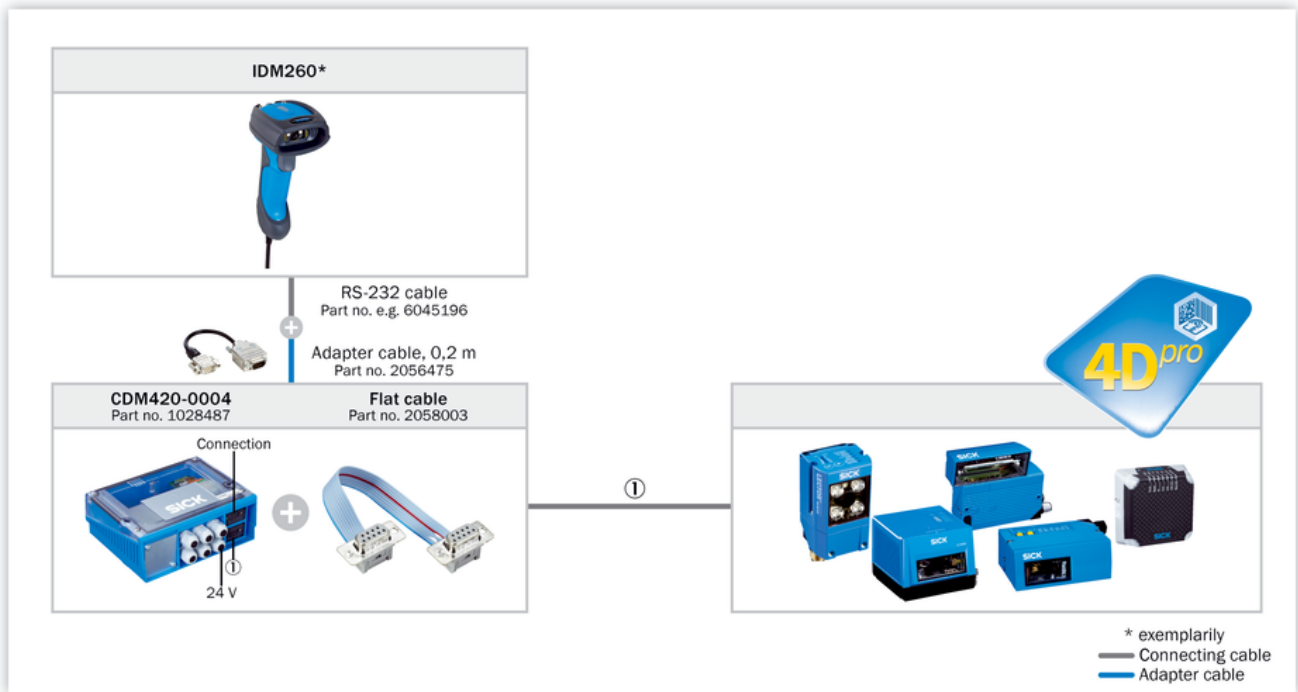
### Connection diagram EtherCAT®

EtherCAT®

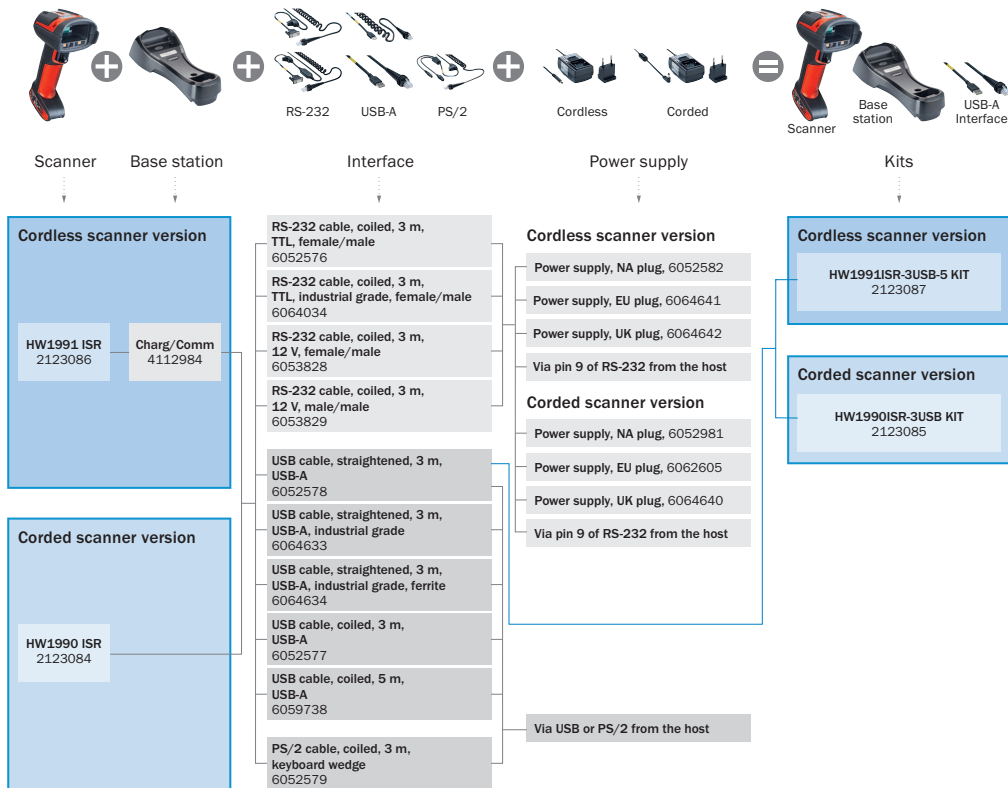


Connection diagram AUX looping

Looping-in via AUX



### Selection Guide HW199x



#### Optional accessories for all scanner versions <sup>\*)</sup>



<sup>\*)</sup> Extract from product portfolio. Other variants are available.

#### Optional accessories only for cordless scanner versions







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/HW19](http://www.sick.com/HW19)

	Brief description	Type	part no.
rechargeable batteries and base stations			
	<ul style="list-style-type: none"> <li>• <b>Enclosure rating:</b> IP51</li> <li>• <b>Description:</b> Charging/Communication station for HW1911 / HW1991, Bluetooth class 1, 100 m, host interfaces: RS-232 / USB / KBW (Honeywell CCB22-100BT-03N)</li> <li>• <b>Items supplied:</b> Accessories not included with delivery, please order separately.</li> </ul>	Base station	4112984
Power supply units and power supply cables			
	<ul style="list-style-type: none"> <li>• <b>Input voltage:</b> 90 V AC ... 255 V AC</li> <li>• <b>Output voltage:</b> 5.2 V DC</li> <li>• <b>Output current:</b> 1 A</li> <li>• <b>Description:</b> Power supply unit with UK male connector for charging station, 1 A, 5.2 V DC, 90 V AC ... 255 V AC at 50 Hz ... 60 Hz (Honeywell PS-05-1000W-G)</li> </ul>	Power supply unit	6064642
	<ul style="list-style-type: none"> <li>• <b>Input voltage:</b> 90 V AC ... 255 V AC</li> <li>• <b>Output voltage:</b> 5.2 V DC</li> <li>• <b>Output current:</b> 1 A</li> <li>• <b>Description:</b> Power supply unit with EU male connector for charging station, 1 A, 5.2 V DC, 90 V AC ... 255 V AC at 50 Hz ... 60 Hz (Honeywell PS-05-1000W-C)</li> </ul>	Power supply unit	6064641
	<ul style="list-style-type: none"> <li>• <b>Input voltage:</b> 90 V AC ... 255 V AC</li> <li>• <b>Output voltage:</b> 5.2 V DC</li> <li>• <b>Output current:</b> 1 A</li> <li>• <b>Description:</b> Power supply unit with NA male connector for charging station, 1 A, 5.2 V DC, 90 V AC ... 255 V AC at 50 Hz ... 60 Hz (Honeywell PS-05-1000W-A)</li> </ul>	Power supply unit	6052582

## 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)