



HW1991ISR-3

HW19

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
HW1991ISR-3	2123086

Other models and accessories → www.sick.com/HW19

Detailed technical data

Features

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

¹⁾ Valid for Code 39.

²⁾ Valid for Data Matrix code.

Mechanics/electronics

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

Performance

Readable code structures	1D codes, 2D codes, Stacked, Digimarc®
Bar code types	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
2D code types	Data Matrix, QR code, MicroQR-Code, Aztec, MaxiCode, Digimarc, DOT Code, CodaBlock A/F, GS1, Chinese Sensible Code, OCR symbologies

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

Interfaces

Ethernet	✓
Type of fieldbus integration	Optional, over external connection module CDF600-2
Remark	TCP/IP
USB	✓
Function	Keyboard wedge, COM-Port emulation
PS/2	✓
Function	Keyboard wedge
Serial	✓ , RS-232 TTL
Remark	Optionally possible via cable
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Function	PROFINET Single Port, PROFINET Dual Port
PROFINET	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Bluetooth	✓
Remark	Bluetooth™ V2.1 EDR, 2.4 ... 2.4835 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
EtherCAT®	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
Optical indicators	3 LEDs (good read, charge of battery , radio connection status)
Acoustic indicators	Beeper, can be switched off
Vibration	Yes
Configuration software	EZConfig Tool (≥ V.4.5.35)

Ambient data

Shock resistance	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
Ambient operating temperature	-20 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C
Relative humidity	95 %, Non-condensing
Ambient light immunity	100,000 lx
Bar code print contrast (PCS)	≥ 20 %

General notes

Items supplied	The rechargeable battery is included with delivery
Note	A base station, power supply unit, and connecting cable may be required for operation.

Certificates

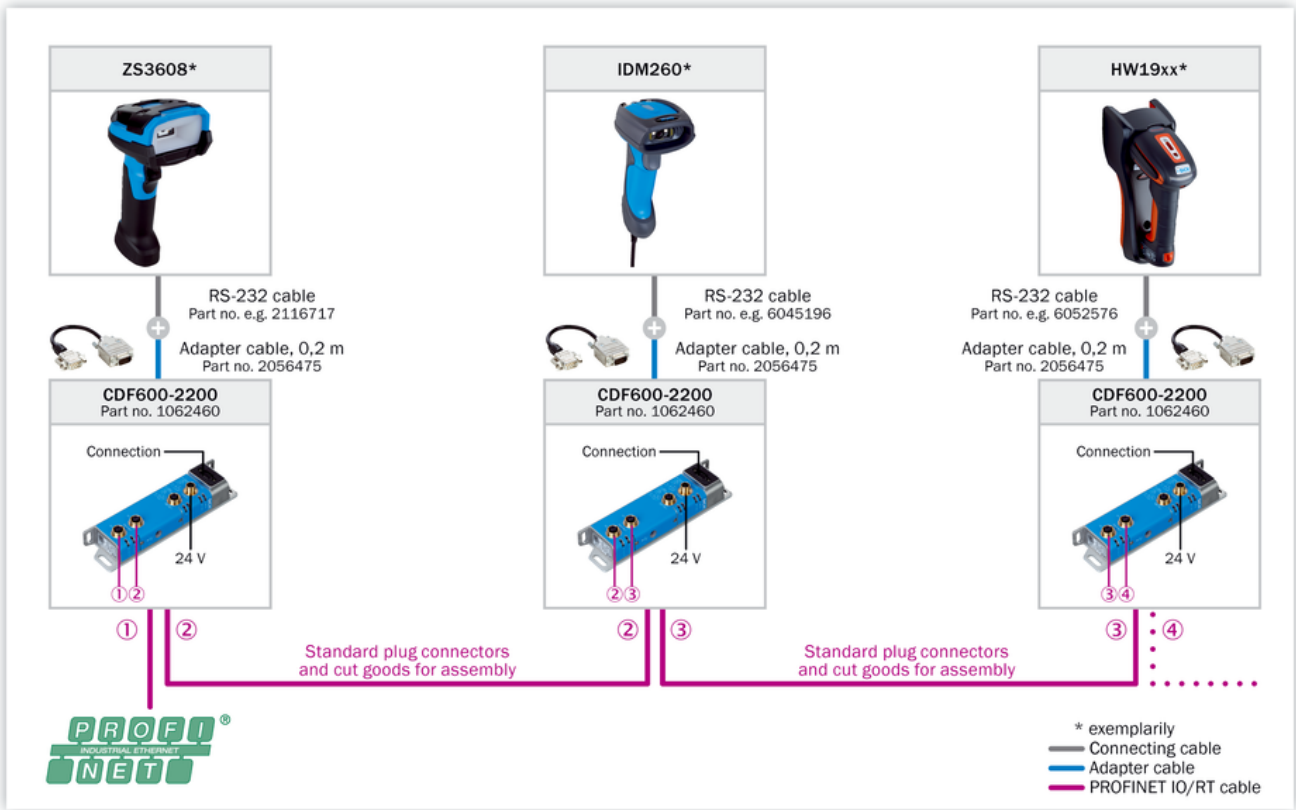
UN38.3 Test Summary Report	✓
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Classifications

ECLASS 5.0	27280101
ECLASS 5.1.4	27280101
ECLASS 6.0	27280101
ECLASS 6.2	27280101
ECLASS 7.0	27280101
ECLASS 8.0	27280101
ECLASS 8.1	27280101
ECLASS 9.0	27280101
ECLASS 10.0	27280101
ECLASS 11.0	27280101
ECLASS 12.0	27280101
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

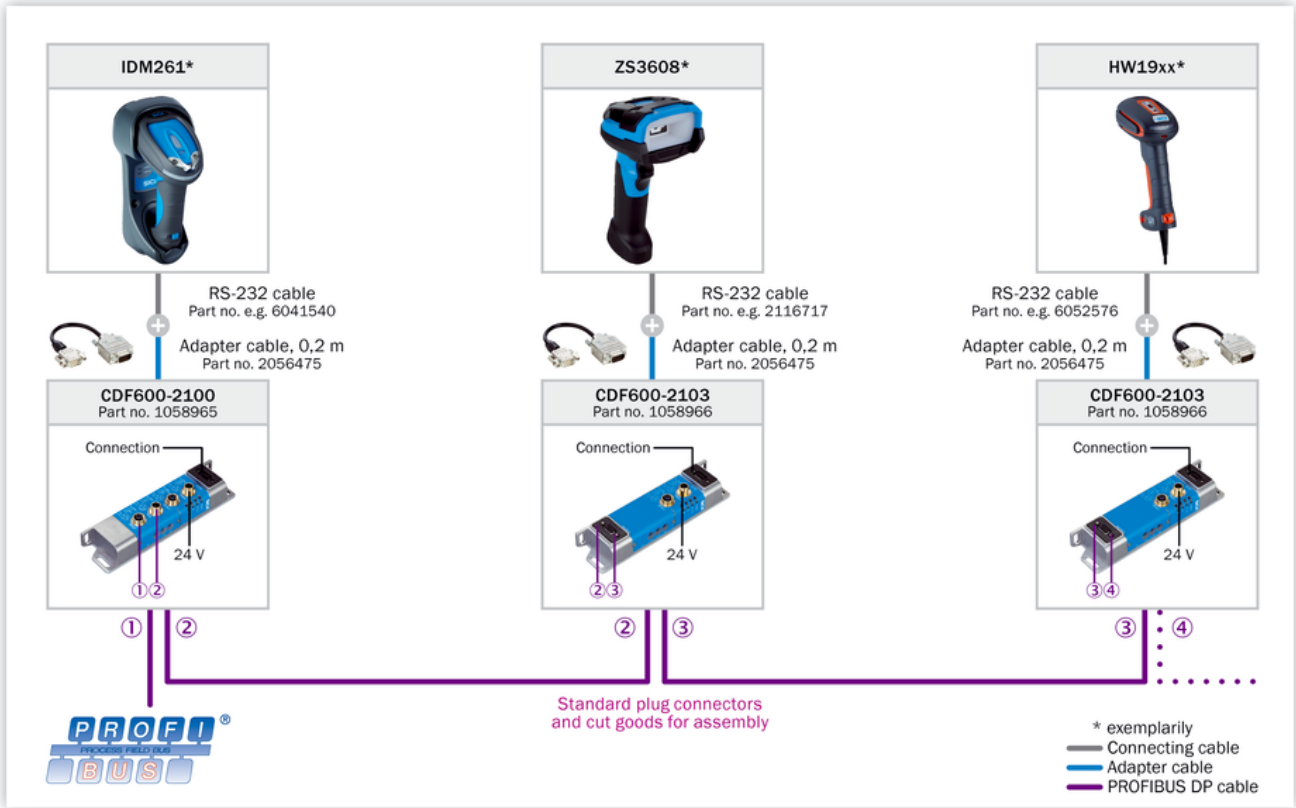
Connection diagram PROFINET IO/RT

PROFINET IO/RT



Connection diagram PROFIBUS DP

PROFIBUS DP



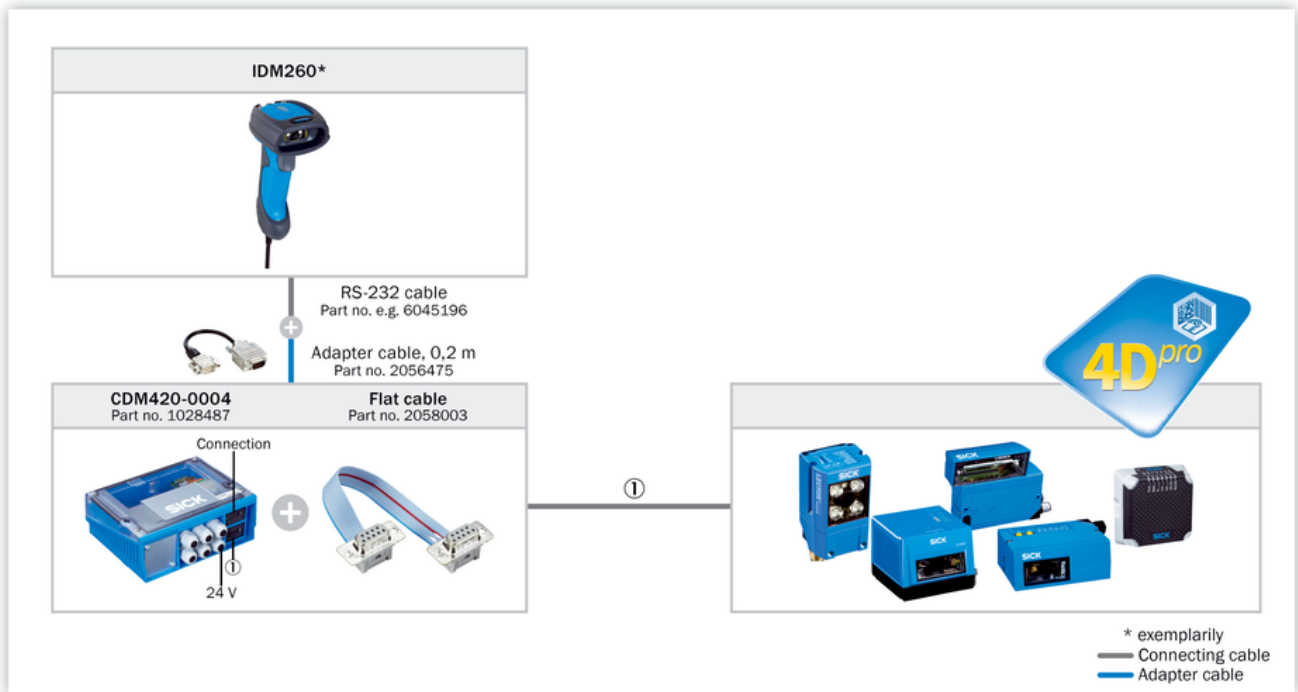
Connection diagram EtherCAT®

EtherCAT®

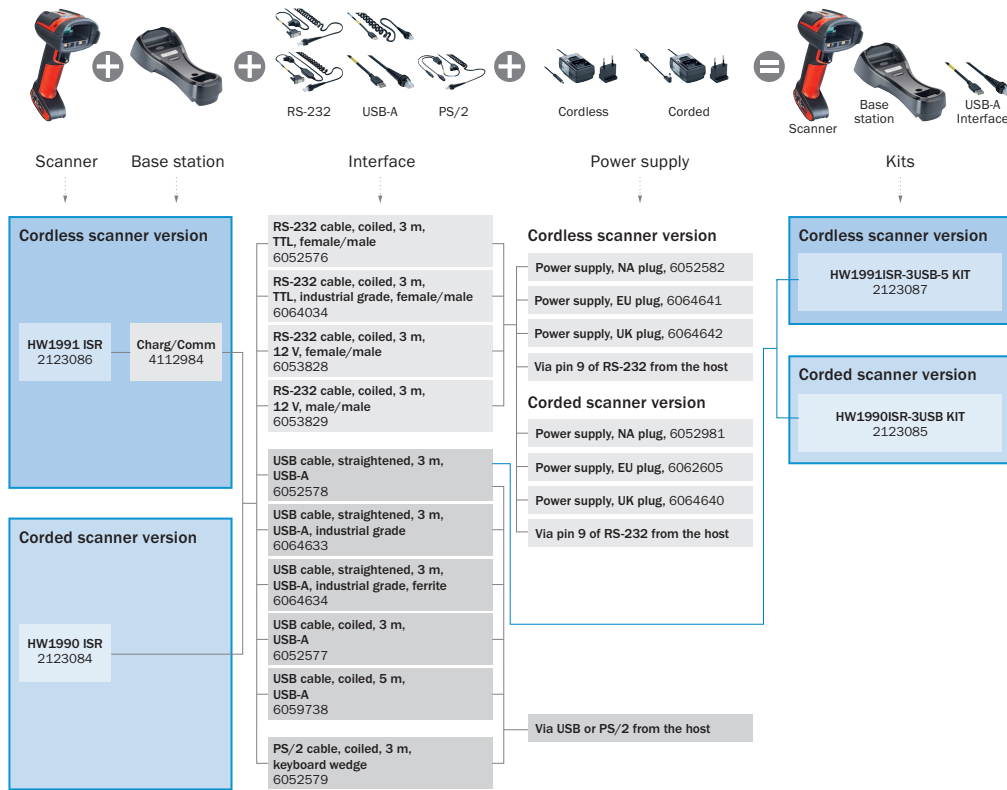


Connection diagram AUX looping

Looping-in via AUX



Selection Guide HW199x



Optional accessories for all scanner versions *)



*) 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. Control or HMS (requires local sourcing).

Recommended accessories

Other models and accessories → www.sick.com/HW19

	Brief description	Type	part no.
integration modules and adapters			
	<ul style="list-style-type: none"> Description: Connection kit for connecting a hand-held scanner to a PROFINET (Siemens) interface 	Hand-held scanner PROFINET kit	1101488
connectors and cables			
	<ul style="list-style-type: none"> Connection type head A: Male connector, USB-A Connection type head B: Male connector, RJ45 Signal type: USB Cable: 3 m, straightened cable Description: USB 	USB cable	6052578
	<ul style="list-style-type: none"> Connection type head A: Female connector, D-Sub, 9-pin, straight Connection type head B: Male connector, RJ45 Signal type: RS-232 TTL Cable: 3 m, coiled cable Description: RS-232 TTL 	Connection cable (male connector-female connector)	6052576
	<ul style="list-style-type: none"> Connection type head A: Male connector, D-Sub, 9-pin Connection type head B: Male connector, D-Sub, 15-pin Items supplied: Incl. 24V/5V DC converter Cable: 0.3 m Note: For handheld scanners to CDB620/CDM420/CDF600/CDF600-2, adapter AUX port 	YMH-DAC-C30XXXMDSA9	2056475
rechargeable batteries and base stations			
	<ul style="list-style-type: none"> Enclosure rating: IP51 Description: Charging/Communication station for HW1911 / HW1991, Bluetooth class 1, 100 m, host interfaces: RS-232 / USB / KBW (Honeywell CCB22-100BT-03N) Items supplied: Accessories not included with delivery, please order separately. 	Base station	4112984
Power supply units and power supply cables			
	<ul style="list-style-type: none"> Input voltage: 90 V AC ... 255 V AC Output voltage: 5.2 V DC Output current: 1 A Description: 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) 	Power supply unit	6064642
	<ul style="list-style-type: none"> Input voltage: 90 V AC ... 255 V AC Output voltage: 5.2 V DC Output current: 1 A Description: 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) 	Power supply unit	6064641
	<ul style="list-style-type: none"> Input voltage: 90 V AC ... 255 V AC Output voltage: 5.2 V DC Output current: 1 A Description: 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) 	Power supply unit	6052582

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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.”

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