



HW1990ISR-3

HW19

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
HW1990ISR-3	2123084

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



Detailed technical data

Features

Version	Standard Range
Application	Industrial application
Scanner design	Cable connection 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	Operation at 5 V DC: 500 mA Standby: 100 mA
Housing	Plastic (UL 94 V-0)
Housing color	Orange, gray
Enclosure rating	IP65 IP67
Weight	320 g
Dimensions (L x W x H)	100 mm x 76 mm x 192 mm

Performance

Readable code structures	1D codes
Bar code types	Code 39
2D code types	Data Matrix
Stacked code types	PDF417

Code alignment	Omni-directional
Horizontal motion tolerance	Typ. 450 cm/s

Interfaces

Ethernet	✓, TCP/IP, RS-232 TTL
Type of fieldbus integration	Optional, over external connection module CDF600-2 Optional over external fieldbus module CDF600-2 Optional over external fieldbus module CDF600 Optional over external fieldbus module CDF600-2
Function	Keyboard wedge, COM-Port emulation Keyboard wedge PROFINET Single Port, PROFINET Dual Port
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	-30 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C
Permissible relative humidity	95 %, Non-condensing
Ambient light immunity	100,000 lx
Bar code print contrast (PCS)	≥ 20 %

General notes

Note	A connecting cable and possibly a power supply unit are still required for commissioning.
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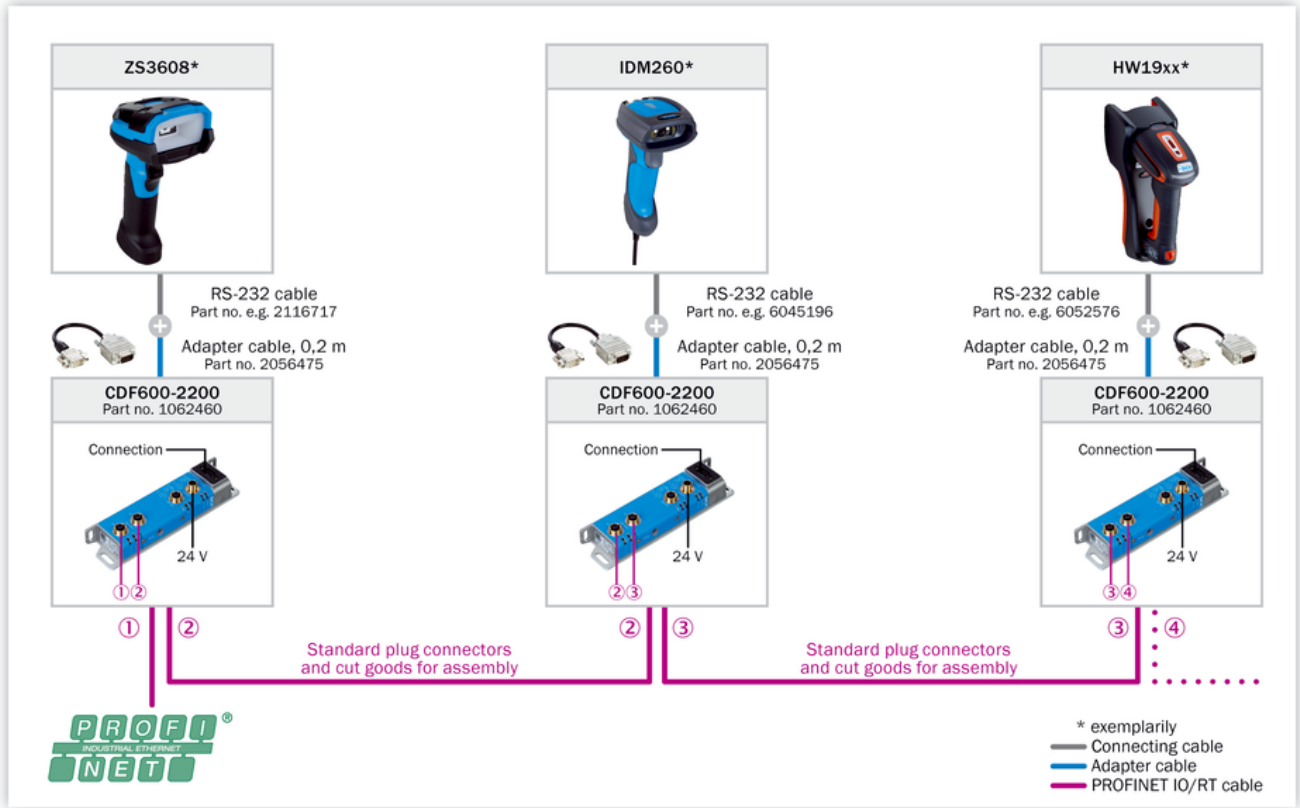
Classifications

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

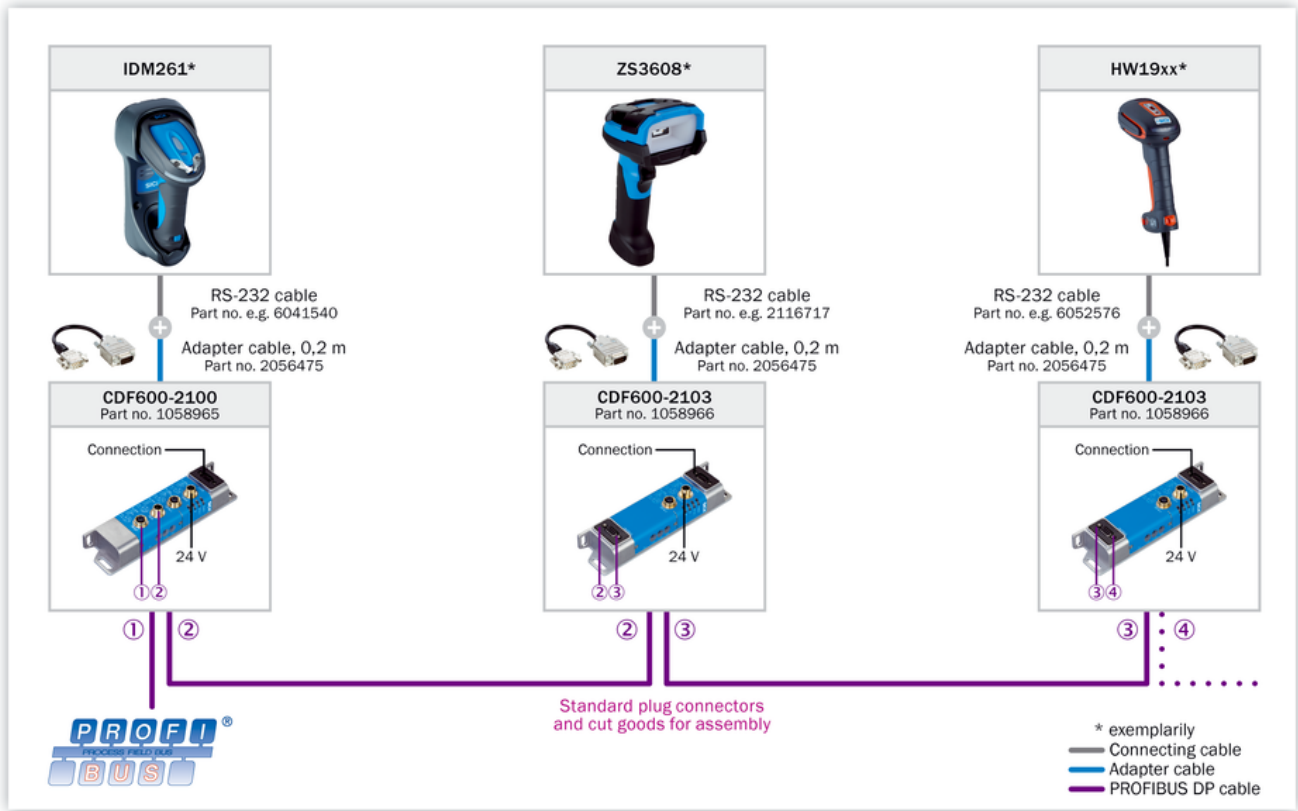
PROFINET IO/RT

PROFINET IO/RT



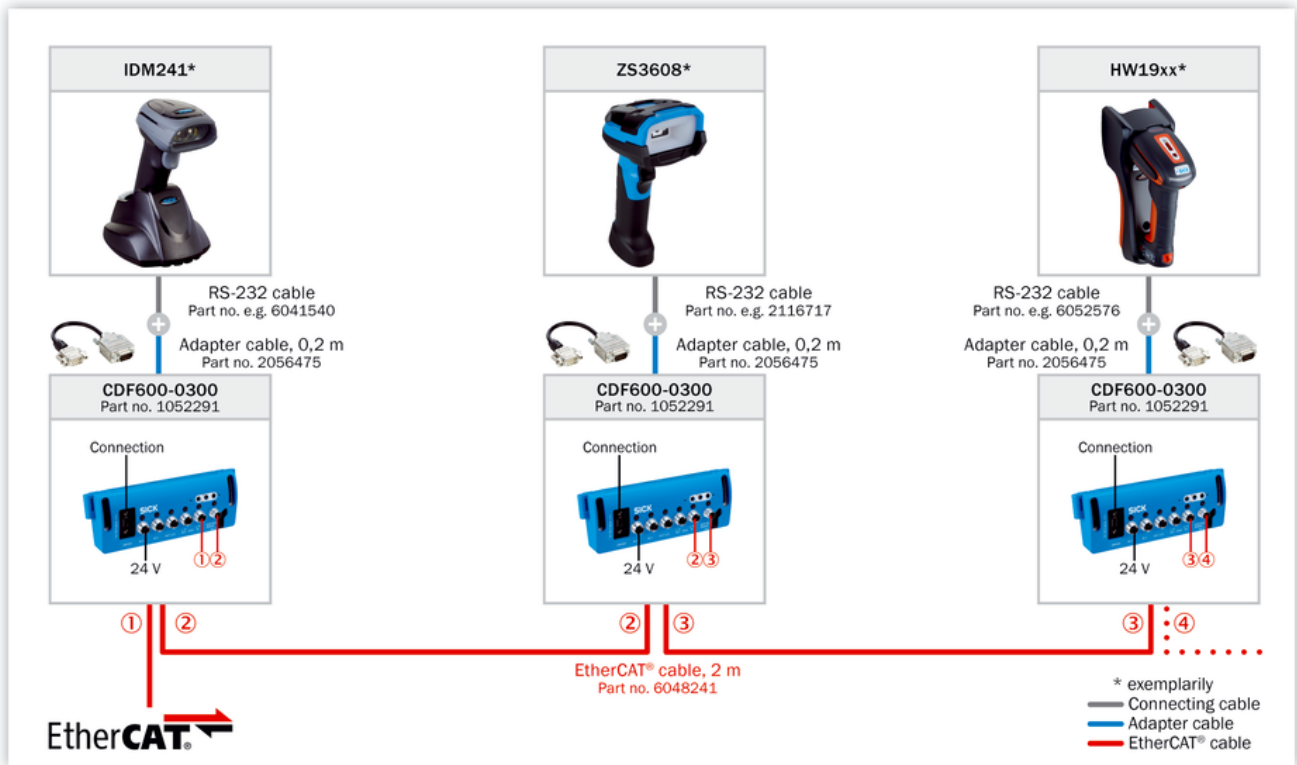
PROFIBUS DP

PROFIBUS DP



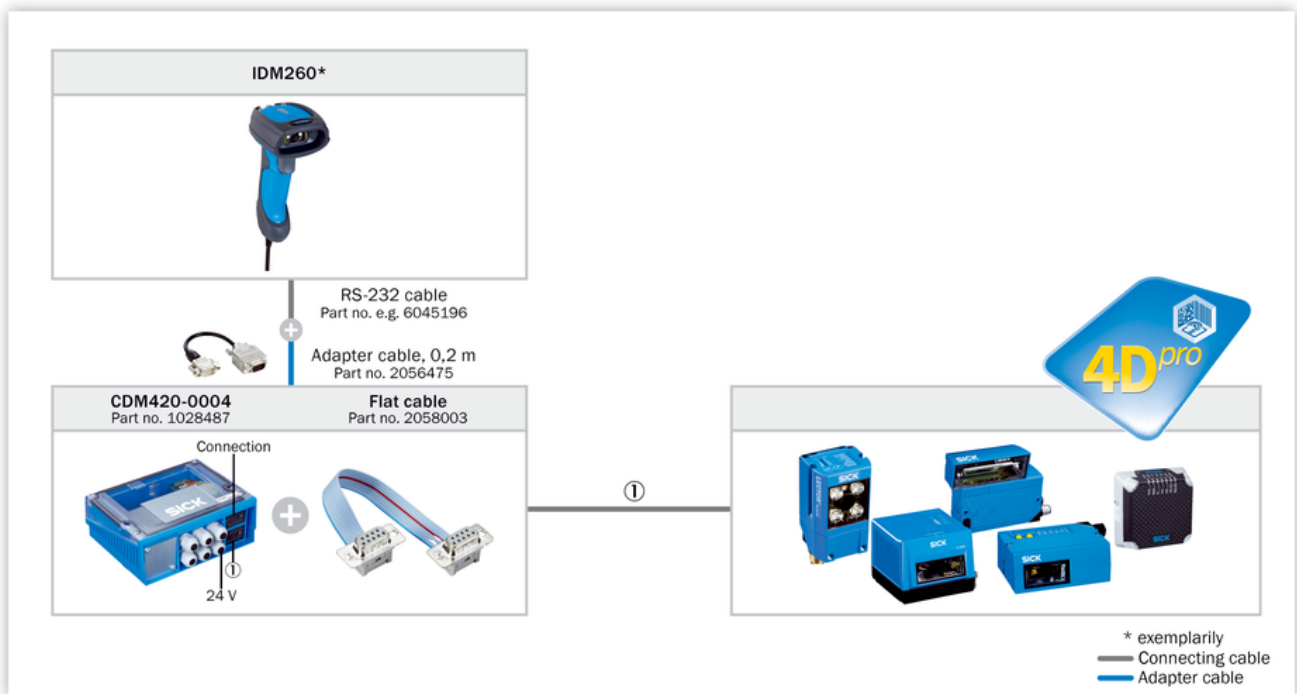
EtherCAT®

EtherCAT®



AUX looping

Looping-in via AUX

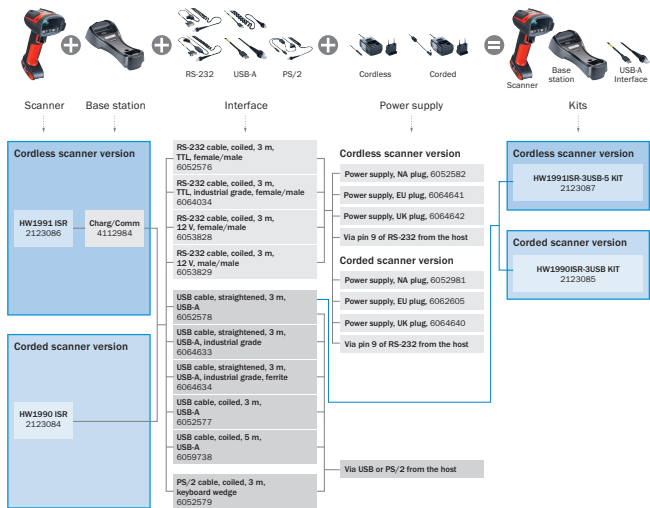


Selection Guide



^{*)} For EtherNet/IP third party gateway is required from e.g. Control or HMS (requires local sourcing).

HW199x



Optional accessories for all scanner versions ^{*)}



^{*)} Extract from product portfolio. Other variants are available.






Optional accessories only for cordless scanner versions



Recommended accessories

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

	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			
	Table and wall bracket including mounting material (Honeywell VMHOLDERE)	Stand mount	5337563
	Table and wall bracket including mounting material (Honeywell HOLDER-010-U)	Stand mount	5328380

	Brief description	Type	Part no.
	Power supply unit with UK male connector for wired hand-held scanners, 1 A, 5.2 V DC, 90 V AC ... 255 V AC at 50 Hz ... 60 Hz (Honeywell 46-00870)	Power supply unit	6064640
	Power supply unit with NA connector for wired hand-held scanners, 1 A, 5.2 V DC, 90 V AC ... 255 V AC at 50 Hz ... 60 Hz (Honeywell 46-00525)	Power supply unit	6052981
	Power supply unit with EU male connector for wired hand-held scanners, 1 A, 5.2 V DC, 90 V AC ... 255 V AC at 50 Hz ... 60 Hz (Honeywell 46-00526)	Power supply unit	6062605
	<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, Keyboard connector or USB Com Port Emulation, 5 V host power (Honeywell CBL-500-300-S00) 	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, 5 V external voltage supply with option for host voltage supply on pin 9 (Honeywell CBL-020-300-C00) 	Connection cable (male connector-female connector)	6052576

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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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