HW1980IFR-3

HW19

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
HW1980IFR-3	6067057

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

Detailed technical data

Features

Version	Full Range Focus
Application	Industrial application
Scanner design	Cable connection variant
Sensor resolution	1,280 px x 800 px
Light source	LED, Visible, Red, 624 nm, ± 18 nm
Alignment aid	Laser, Red, 650 nm
Reading distance	150 mm … 16,000 mm
Code resolution	≥ 0.05 mm [1] ≥ 2 mm [2]

[1] Close range.
[2] Distance range.

Mechanics/electronics

Supply voltage	4 V DC … 5.5 V DC
Current consumption	Operation at 5 V DC: 470 mA Standby: 100 mA
Housing	Plastic (UL 94 V-0)
Housing color	Orange, gray
Enclosure rating	IP65
Weight	335 g
Dimensions (L x W x H)	133 mm x 75 mm x 195 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

Interfaces

Ethernet	✓, TCP/IP, RS-232 TTL
Type of fieldbus integration	Optional over external fieldbus module CDF600-2 Optional over external fieldbus module CDF600-2 Optional over external fieldbus module CDF600 Optional over external fieldbus module CDF600-2
Function	PROFINET Single Port, PROFINET Dual Port Keyboard wedge, COM-Port emulation Keyboard wedge
Optical indicators	2 LEDs (good read, charge of battery, radio connection status)
Acoustic indicators	Beeper, can be switched off
Vibration	Yes
Configuration software	EZConfig Tool

Ambient data

Shock resistance	50 drop tests onto concrete from a height of 2 m at –30 °C
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)	≥ 40 %

General notes

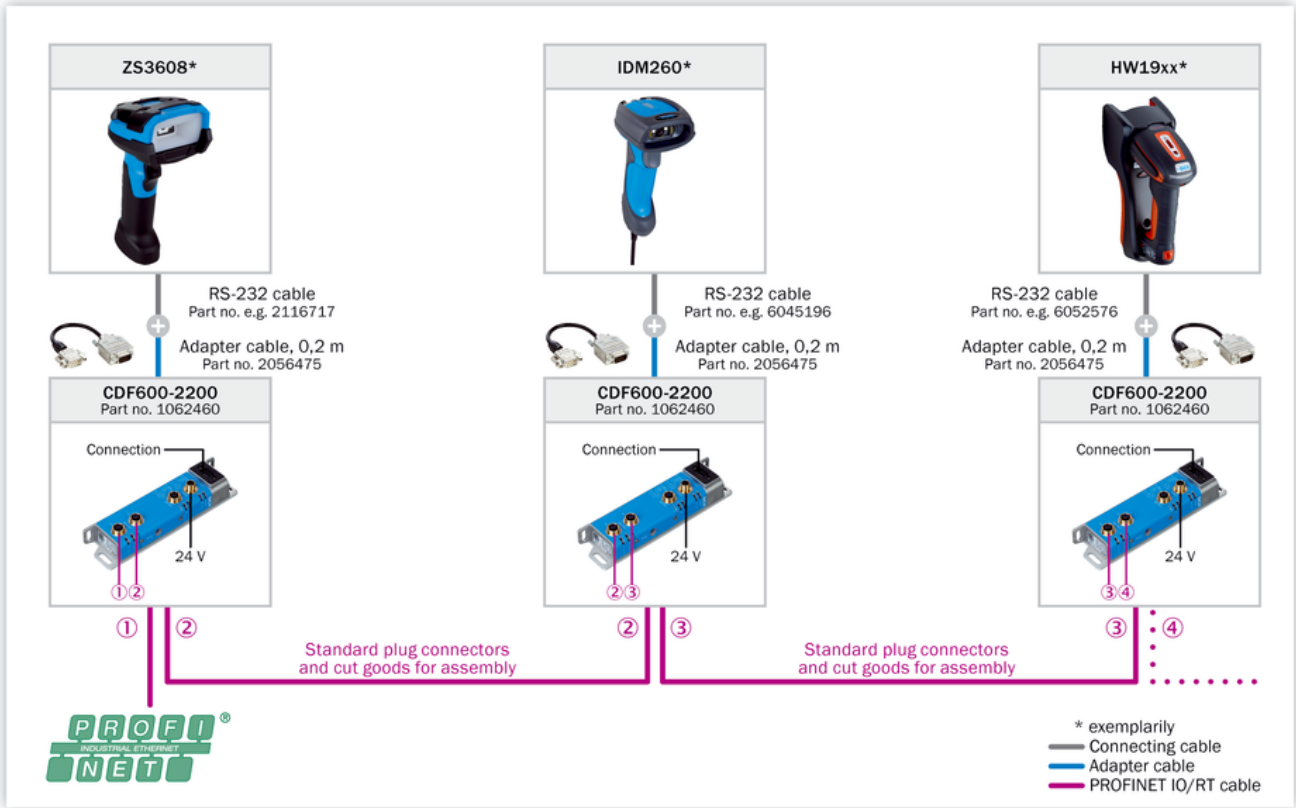|	
Note	A connecting cable and possibly a power supply unit are still required for commissioning.

Classifications

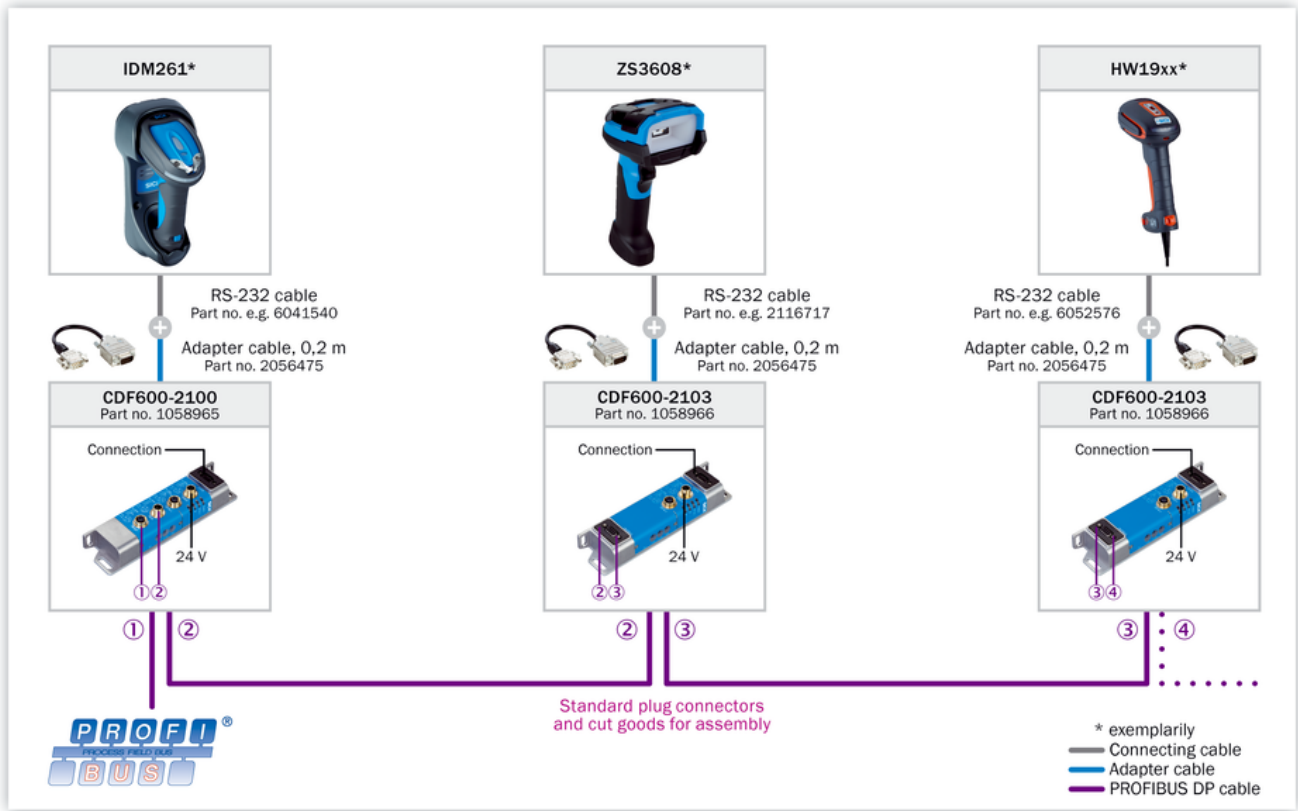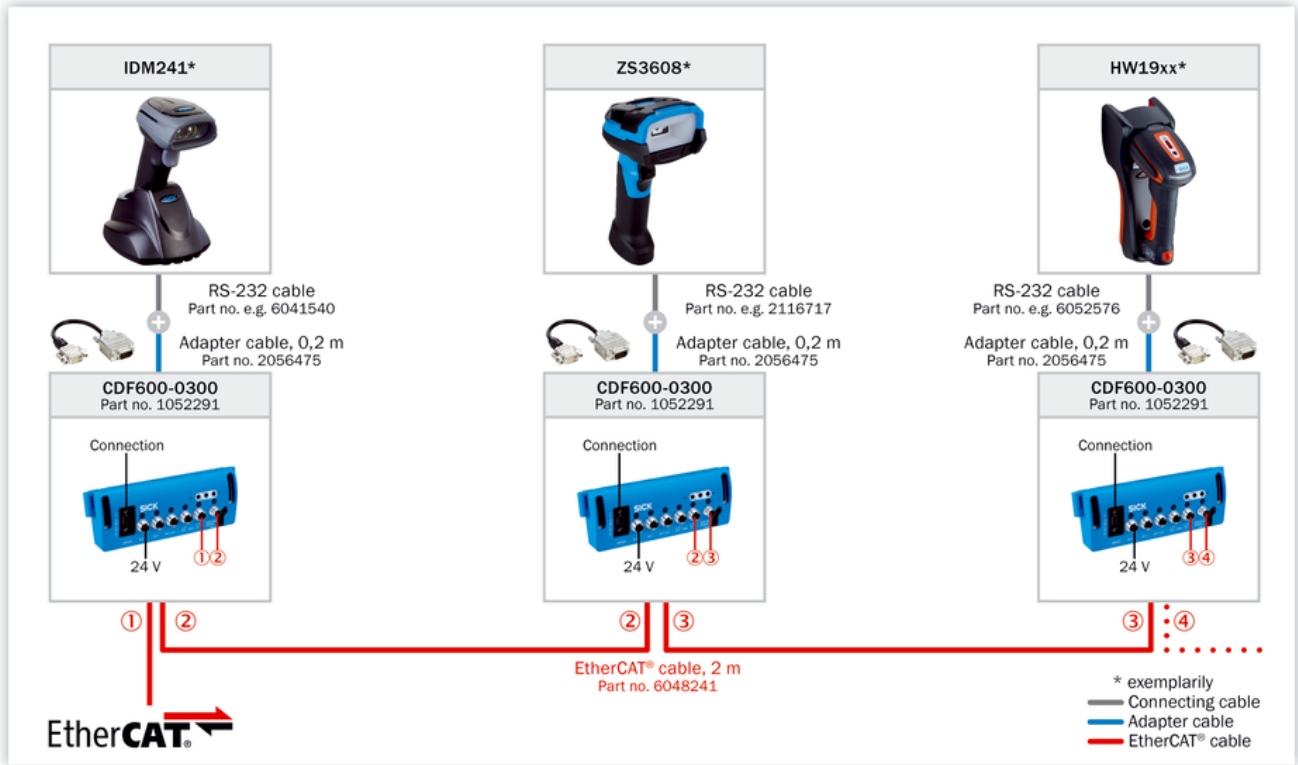|	
ECLASS 5.0	27280101
ECLASS 5.1.4	27280101
ECLASS 6.0	27280101
ECLASS 6.2	27280101
ECLASS 7.0	27280101
ECLASS 8.0	27280101
ECLASS 8.1	27280101
ECLASS 9.0	27280101
ECLASS 10.0	27280101
ECLASS 11.0	27280101
ECLASS 12.0	27280101
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC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

Connection diagram

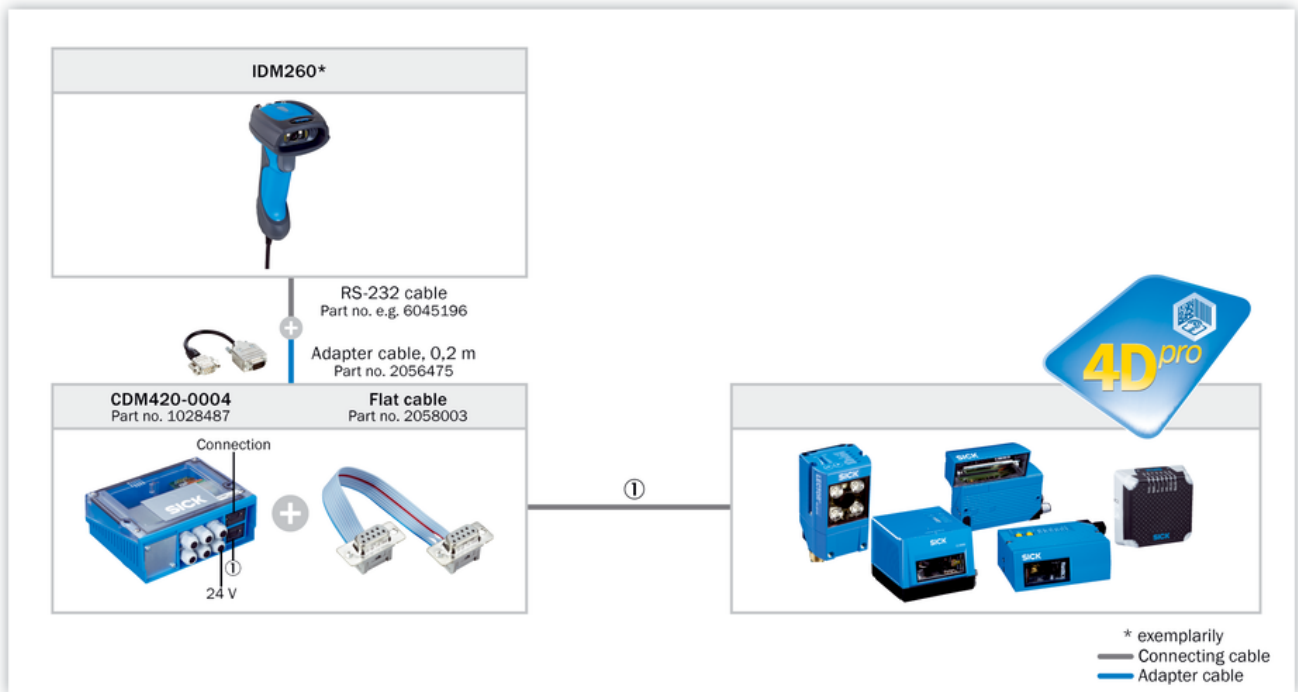PROFINET IO/RT

PROFINET IO/RT

PROFIBUS DP

PROFIBUS DP

EtherCAT®

EtherCAT®

AUX looping

Looping-in via AUX

Selection Guide

Scanner	Connection cable (RS-232)	DC converter (24V/5V)	Modules	Interface (network/products)

*) 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.
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/CDF600-2, adapter AUX port	YMHDAC-C30XXXMDSA9	2056475
Other mounting accessories			
	Table and wall bracket including mounting material (Honeywell HOLDER-010-U)	Stand mount	5328380
	Vehicle mounting kit including vehicle fork bracket (VM bracket), adjustable arm with ball joints and mounting accessories (Honeywell VMHOLDERK)	Stand mount	5328383

	Brief description	Type	Part no.
	Table and wall bracket including mounting material (Honeywell VMHOLDERE)	Stand mount	5337563
	• **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, industrial grade (Honeywell CBL-020-300-C00-01)	Connection cable (male connector-female connector)	6064034
	• **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, industrial grade (Honeywell CBL-500-300-S00-01)	USB cable	6064633
	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
	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

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