



HW1990ISR-3USB

HW19

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
HW1990ISR-3USB	2123085

Included in delivery: USB cable (1), HW1990ISR-3 (1)

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

Detailed technical data

Features

Application	Industrial application
Version	Standard Range
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 material	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, 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

Interfaces

USB	✓
Function	Keyboard wedge, COM-Port emulation
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

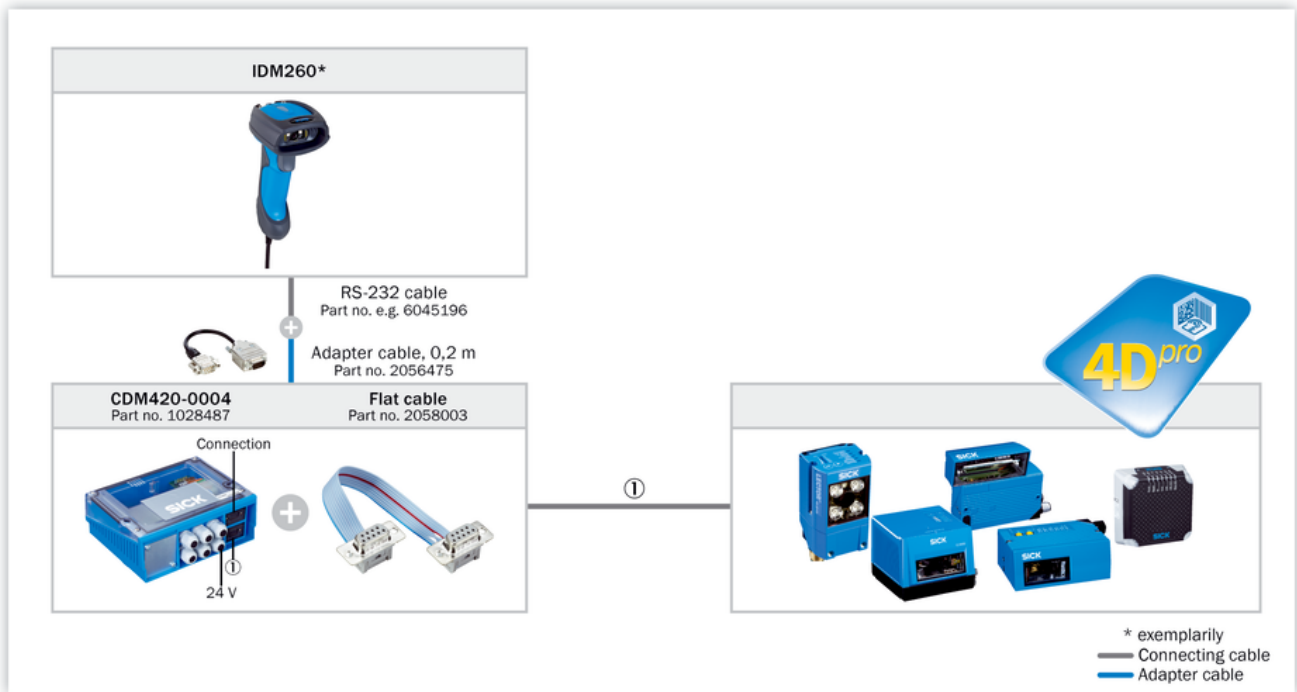
Shock resistance	50 drop samples at -30 °C ... +50 °C from 2 m height on concrete 20 drop samples at 25 °C, 55% rel. air humidity onto concrete from a height of 2.4 m Onto concrete from a height of 3 m
Ambient operating temperature	-30 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C
Permissible relative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

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

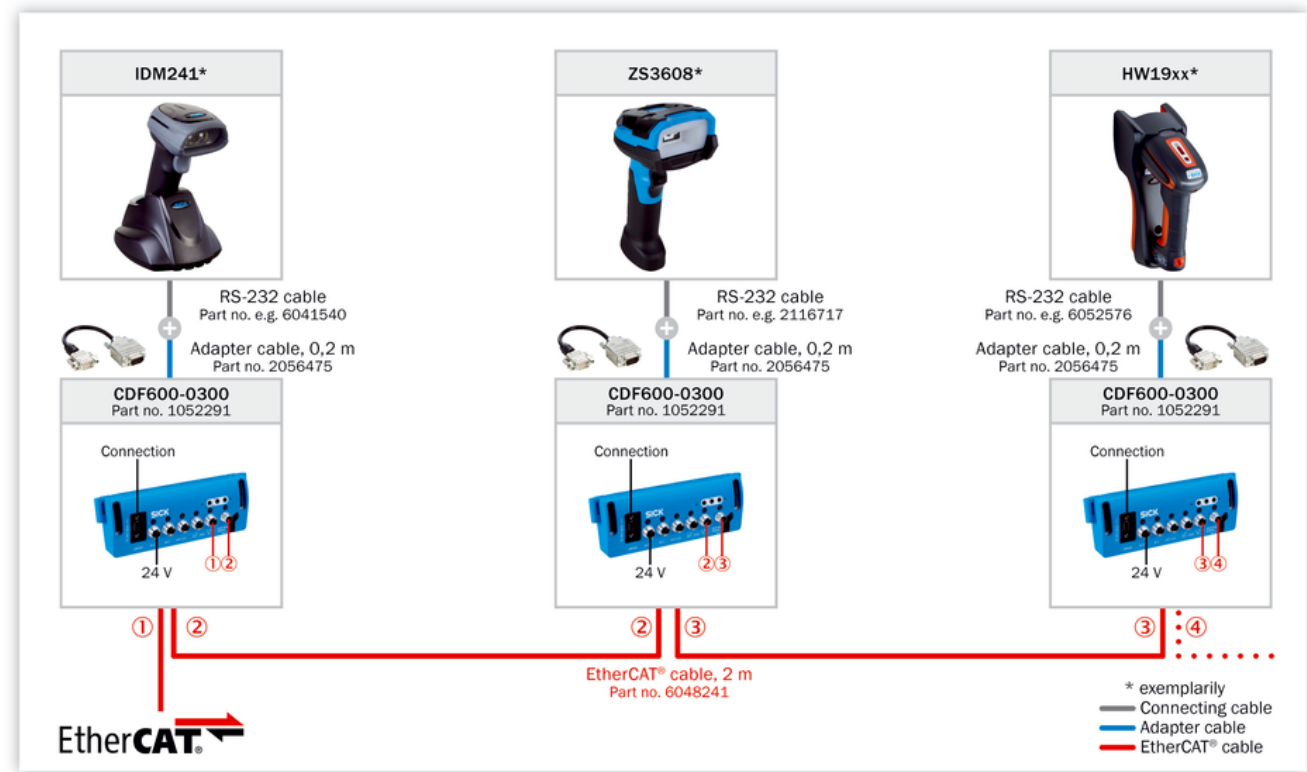
Connection diagram AUX looping

Looping-in via AUX



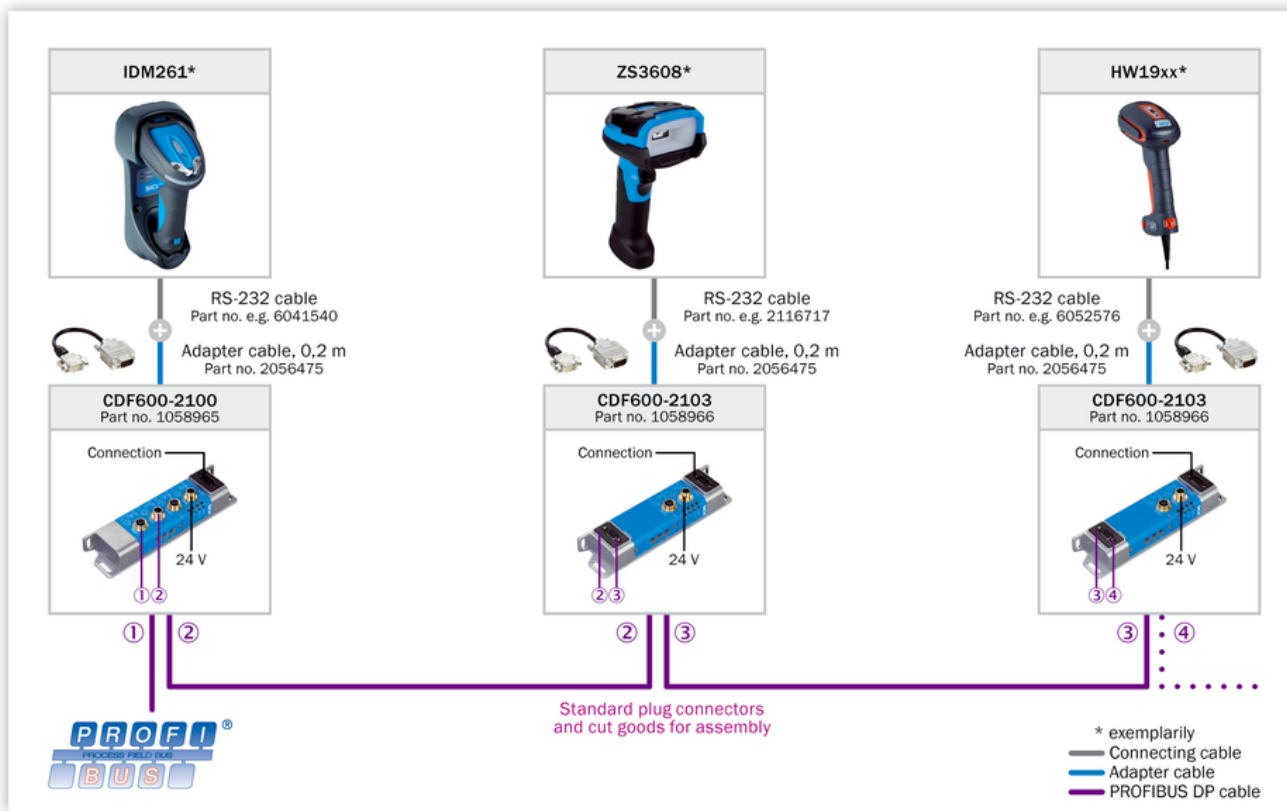
Connection diagram EtherCAT®

EtherCAT®



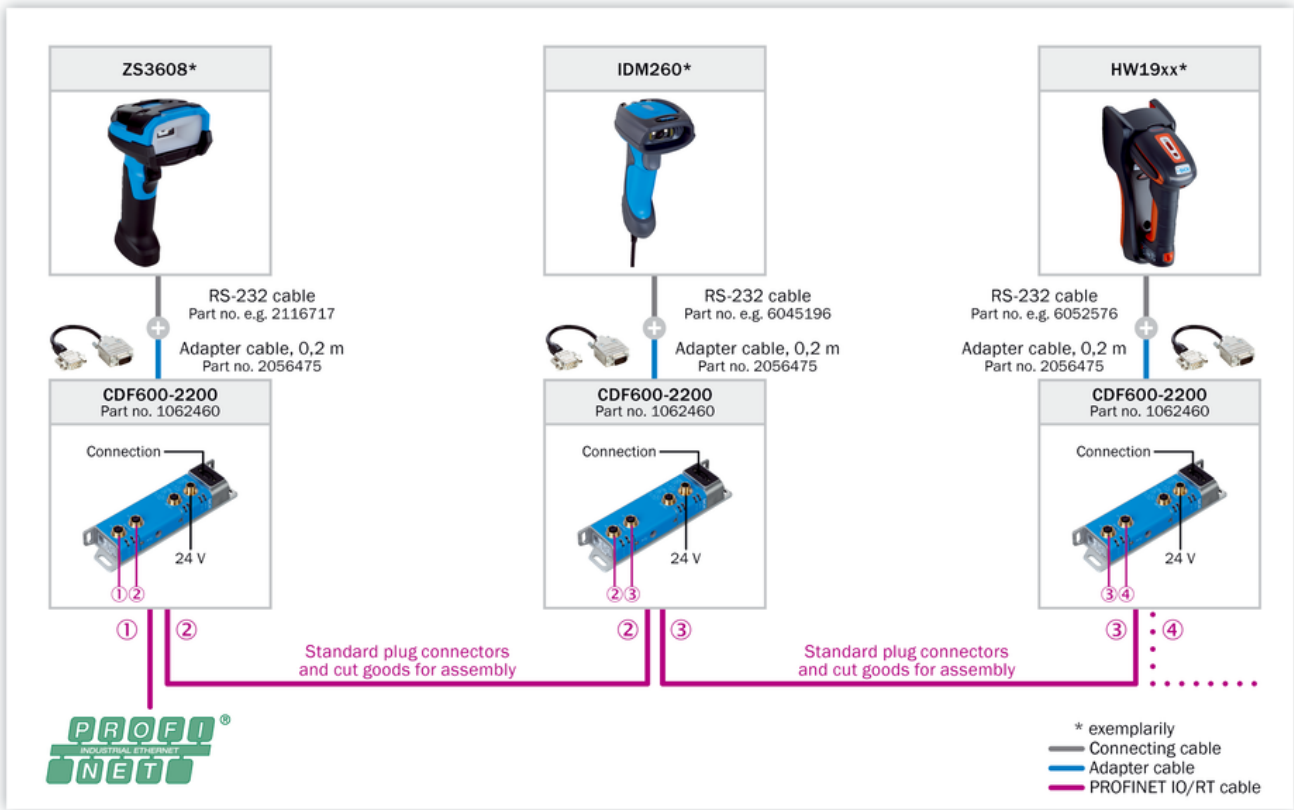
Connection diagram PROFIBUS DP

PROFIBUS DP



Connection diagram PROFINET IO/RT

PROFINET IO/RT

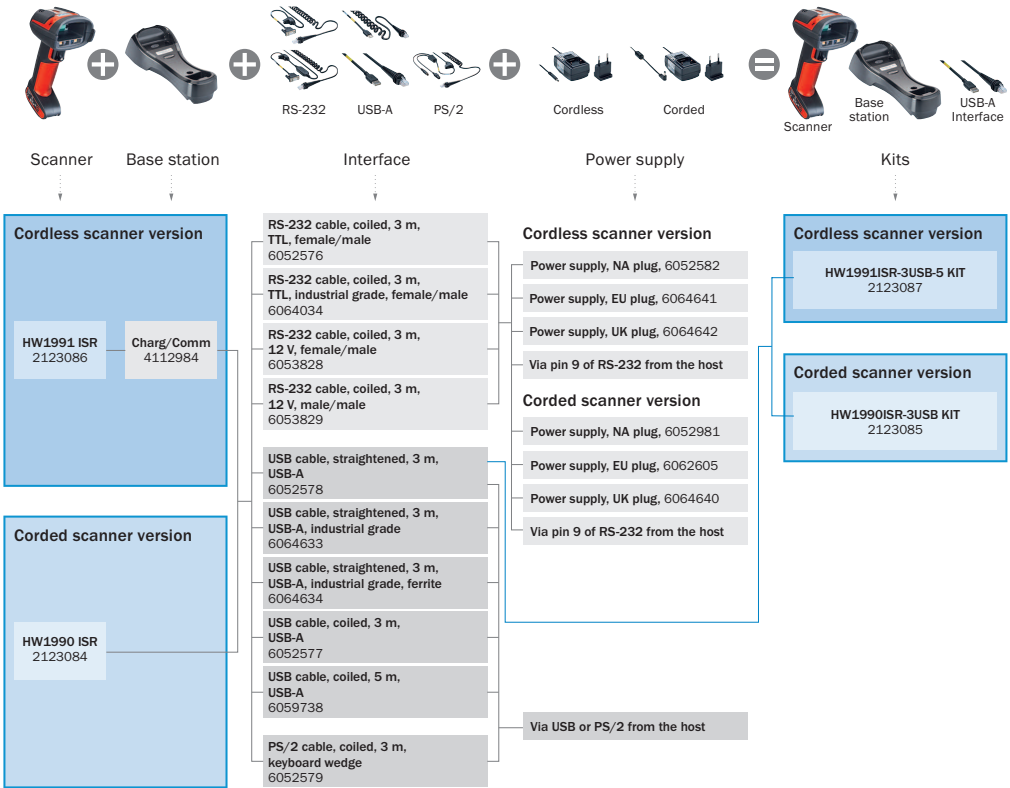


Selection Guide



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

Selection Guide 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.
Mounting systems			
	Description: Table and wall bracket including mounting material (Honeywell VMHOLDERE)	Stand mount	5337563
	Description: Table and wall bracket including mounting material (Honeywell HOLDER-010-U)	Stand mount	5328380

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