Product data sheet

IDM160-300S

IDM

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
IDM160-300S	6054544

Other models and accessories ➜ www.sick.com/IDM

Detailed technical data

Features

Application	Industrial application
Version	Standard Range
Scanner design	Cable connection variant
Light source	LED, Visible, Red, 630 nm
Reading distance	20 mm ... 850 mm [1]
Scanning frequency	≤ 500 Hz
Code resolution	≥ 0.076 mm

[1] For details see reading field diagram.

Mechanics/electronics

Supply voltage	5 V DC, ± 10 %
Current consumption	Operation (vibration activated): 230 mA Operation (vibration deactivated): 180 mA Standby: 80 mA
Housing color	Blue, gray
Enclosure rating	IP65
Weight	208 g, without cable
Dimensions (L x W x H)	104 mm x 76.3 mm x 176 mm

Performance

Readable code structures	1D codes
Bar code types	Codabar, Code 39, Code 32, UPC-A, UPC-E, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, Code 128, UCC/EAN-128, Code 11, Code 93, German ITF Postal Code, Mainland China Postal Code, Telepen, MSI/Plessey, UK/Plessey, Limited/Expanded GS1 DataBar, Code 39 Trioptic, IATA, UPC / EAN / JAN (with addition)

Interfaces

Ethernet	✓, TCP/IP
Type of fieldbus integration	Optional, over external connection module CDF600-2
PROFINET	✓

Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Function	PROFINET Single Port, PROFINET Dual Port
EtherCAT	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial	✓, RS-232 TTL
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
USB	✓
Function	Keyboard wedge, COM-Port emulation
PS/2	✓
Function	Keyboard wedge
Optical indicators	2 LEDs (operational status, good read)
Acoustic indicators	Beeper, can be switched off
Vibration	Yes
Configuration software	IDM Setup Tool

Ambient data

Shock resistance	50 drops from 2 m height on concrete
Ambient operating temperature	–10 °C ... +50 °C
Storage temperature	–40 °C ... +70 °C
Permissible relative humidity	± 95 %, Non-condensing
Ambient light immunity	100,000 lx

General notes

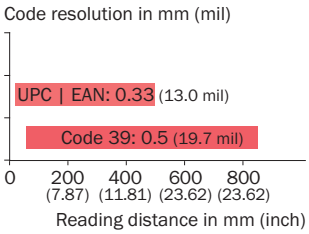
Note	A connecting cable and possibly a power supply unit are still required for commissioning.

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

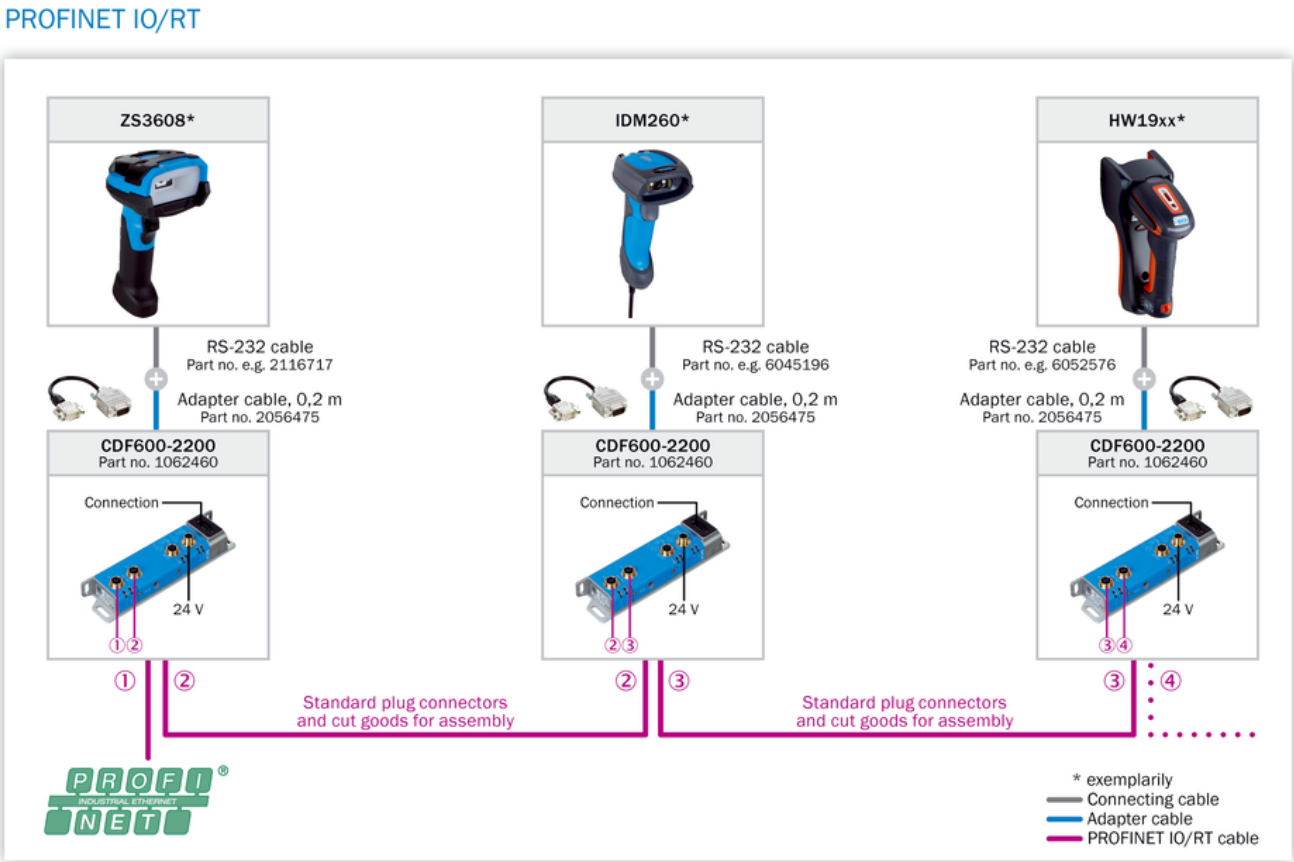
Reading field diagram

IDM14x-3xxS Standard Range IDM16x-3xxS Standard Range



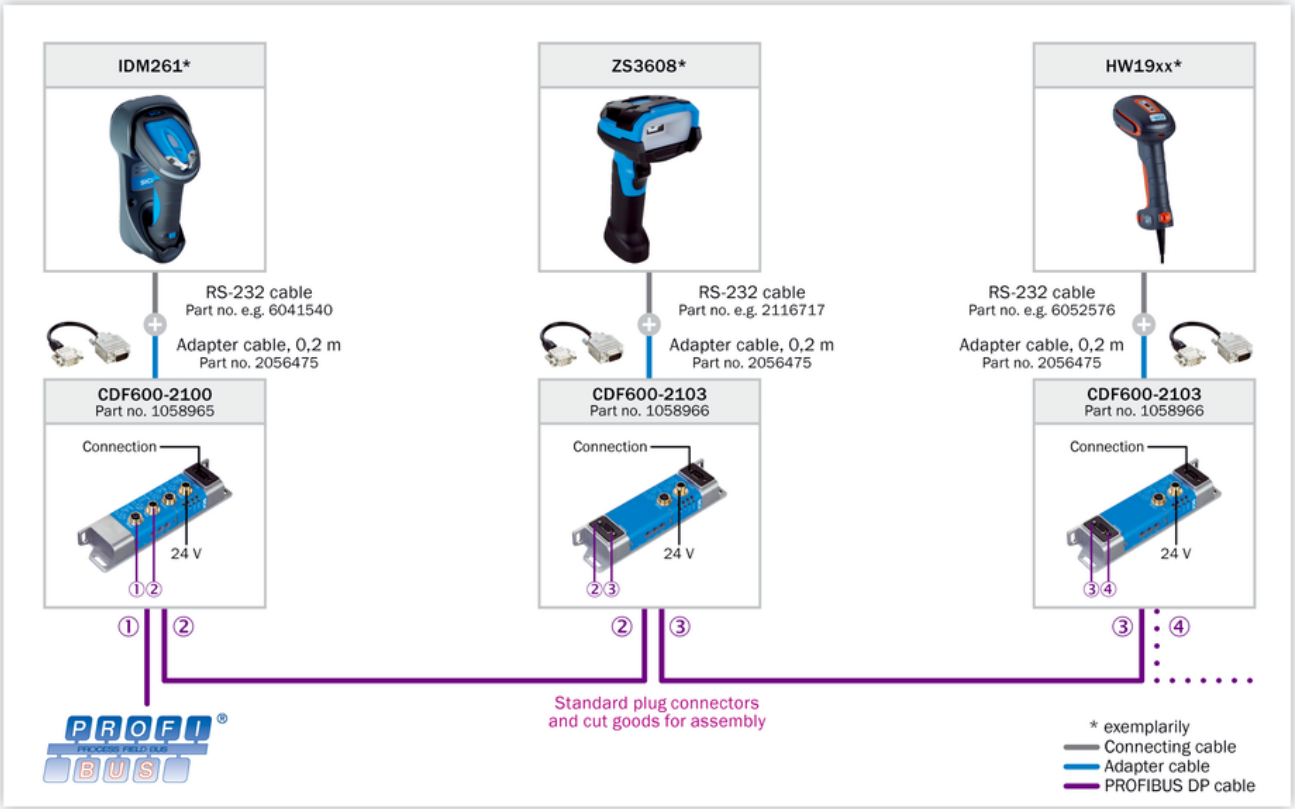
Connection diagram

PROFINET IO/RT



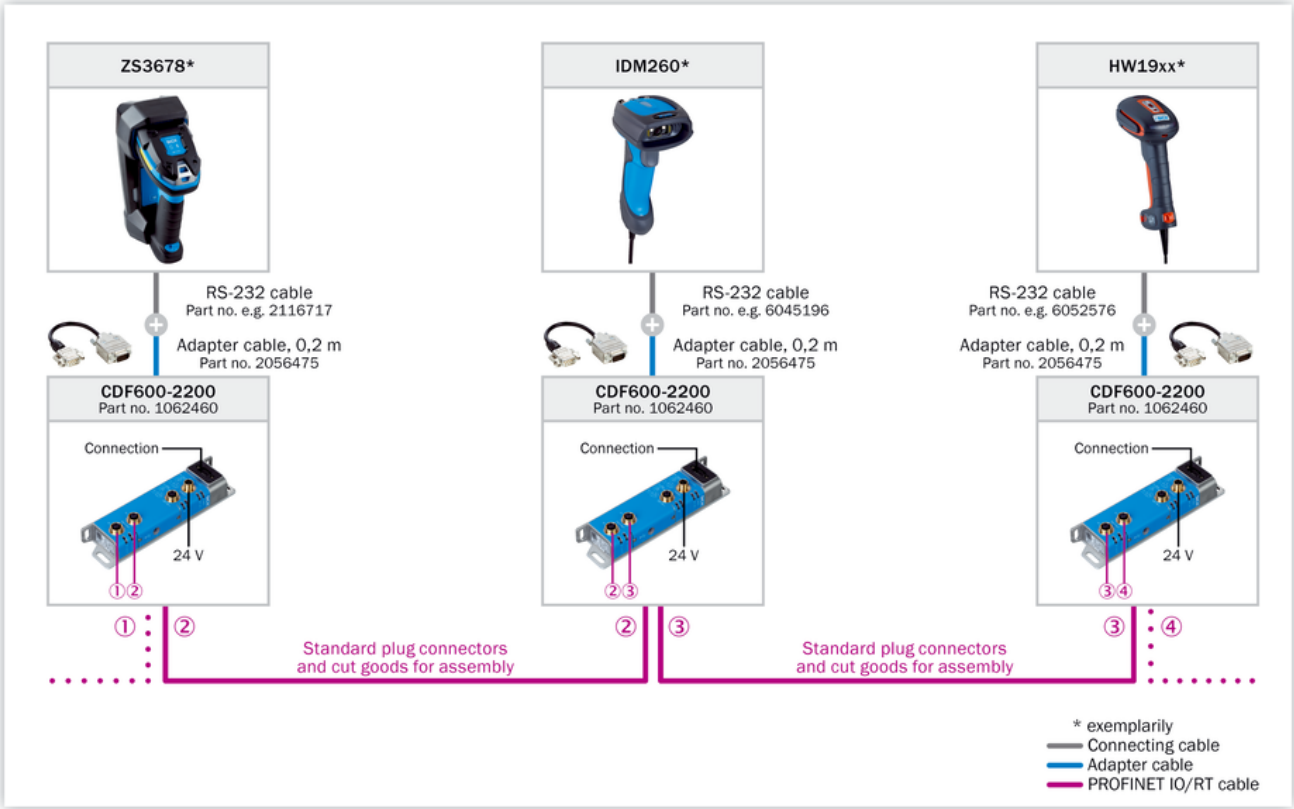
PROFIBUS DP

PROFIBUS DP



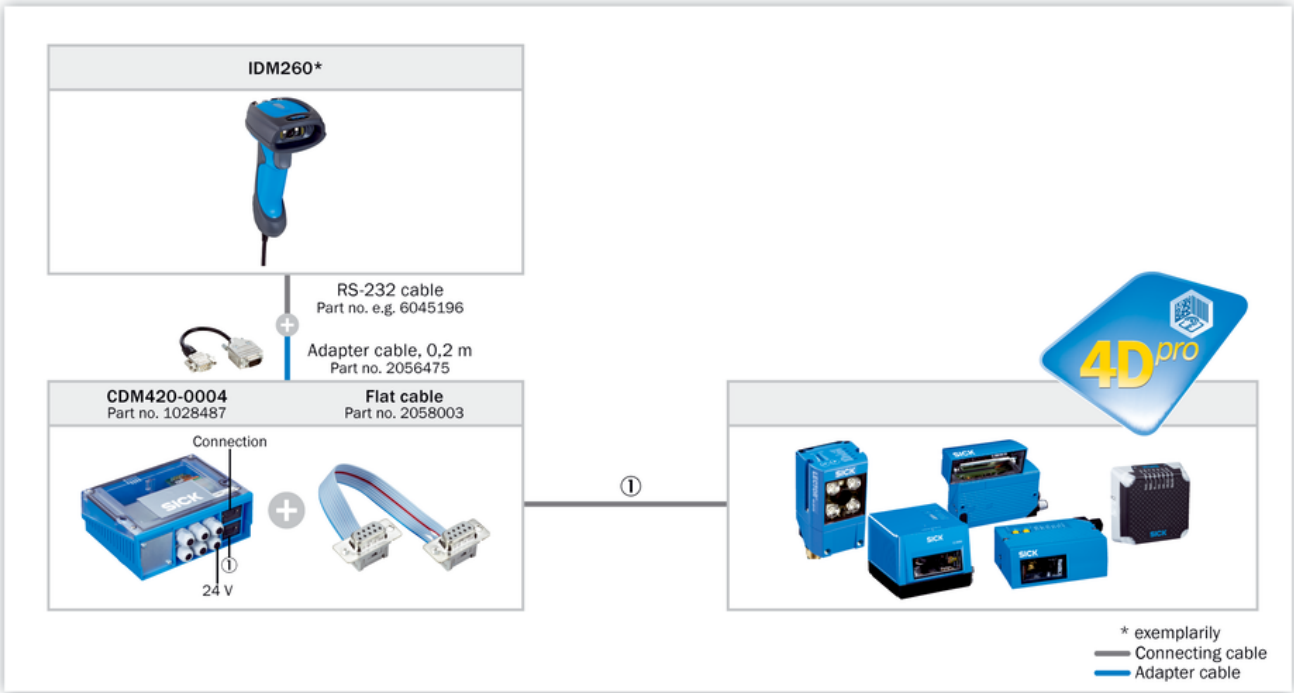
Ethernet TCP/IP

Ethernet TCP/IP



EtherCAT®

AUX looping



Selection Guide

Recommended accessories

Other models and accessories ➜ www.sick.com/IDM

	Brief description	Type	Part no.
Other adapters			
	• **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 • **Description:** Adapter for connecting a handheld scanner to CDB620 / CDM420 / CDF600 / CDF600-2, D-Sub 9-pin male connector, D-Sub 15-pin male connector, including 24V / 5V DC converter, AUX port adapter • **Note:** For handheld scanners to CDB620/CDM420/CDF600/CDF600-2, adapter AUX port	YMHDAC-C30XXXMDSA9	2056475
	• **Input voltage:** 100 V AC ... 240 V AC • **Output voltage:** 5 V DC • **Output current:** 2 A • **Description:** Power supply, input AC 100 ... 240 V, output DC 5 V/2 A (necessary when using RS-232 TTL cable, does not fulfill medical standard EN 60601/ IEC 60601))	Power supply unit	6036722

	Brief description	Type	Part no.
	• **Connection type head A:** Female connector, D-Sub, 9-pin, straight • **Connection type head B:** Male connector, RJ45 • **Signal type:** RS-232 • **Cable:** 1.8 m, straightened cable • **Description:** RS-232, unshielded • **Note:** Voltage via pin 9 or external power supply required	Connection cable	6045196
	• **Product family:** Brackets • **Description:** Tripod mount	Stand mount	6045193
	• **Description:** Connection kit for connecting a hand-held scanner to a PROFINET (Siemens) interface	Hand-held scanner PROFINET kit	1101488
	• **Product family:** Brackets • **Description:** Desk holder	Table mount	6045192
	• **Connection type head A:** Male connector, USB-A • **Connection type head B:** Male connector, RJ45 • **Signal type:** USB • **Cable:** 1.8 m, straightened cable • **Description:** USB, unshielded • **Note:** For keyboard wedge or USB Com Port Emulation	Connection cable	6045195

Recommended services

Additional services ➜ www.sick.com/IDM

	Type	Part no.
Extended warranty		
• **Product area:** Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners • **Range of services:** The services correspond to the scope of the statutory warranty (SICK General Terms of Delivery) • **Duration:** Five-year warranty from delivery date.	Extended warranty for a total of five years from delivery date	1680671

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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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