Product data sheet

IDM161-300S RS-232 Kit

IDM

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
IDM161-300S RS-232 Kit	6054558

Included in delivery: Base station (1), IDM161-300S (1), Power supply unit (1)

Should you require further technical data, this can be found with the single scanner and the other parts of the kit.

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

Detailed technical data

Features

Version	Standard Range
Application	Industrial application
Scanner design	Wireless 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	3.7 V DC [1]
Current consumption	Operation: 180 mA Standby: 80 mA
Housing color	Blue, gray
Enclosure rating	IP65
Weight	220 g, incl. rechargeable battery
Dimensions (L x W x H)	104 mm x 76.3 mm x 176 mm

[1] Rechargeable battery operation.

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)
Battery power	Over 60,000 scans with full battery
Code buffer	80,000 Codes (EAN)

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
Bluetooth	✓
Remark	Bluetooth™ V4.0, 2.402 ... 2.4830 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
Optical indicators	2 LEDs (good read, charge of battery, radio connection status)
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	–20 °C ... +50 °C
Storage temperature	–40 °C ... +70 °C
Permissible relative humidity	± 95 %, Non-condensing
Ambient light immunity	100,000 lx

General notes

Items supplied	The battery is included in delivery
Note	A power supply unit may also be required for commissioning.

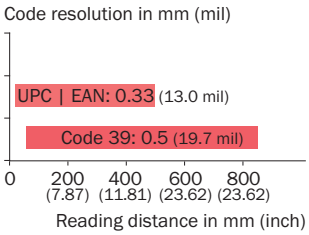
Classifications

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

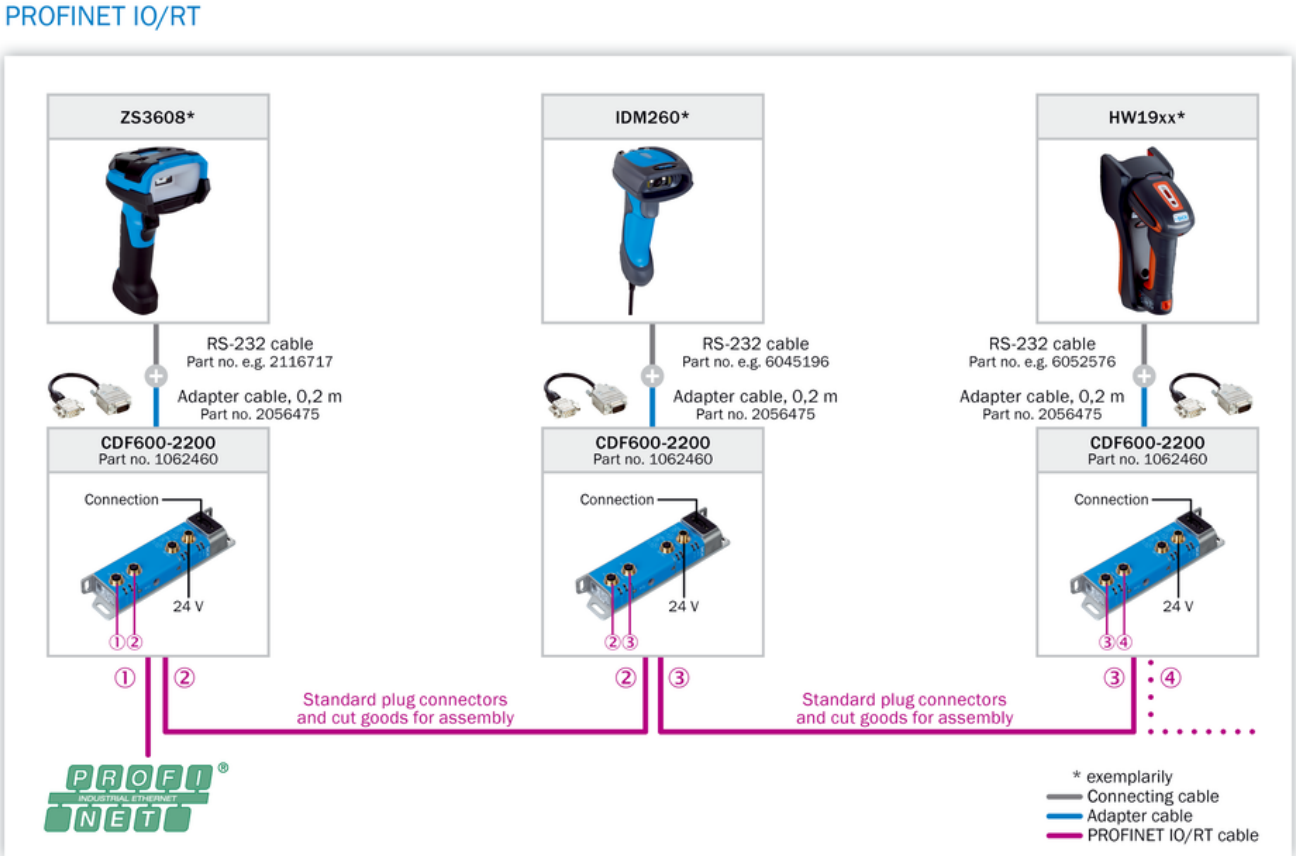
Reading field diagram

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



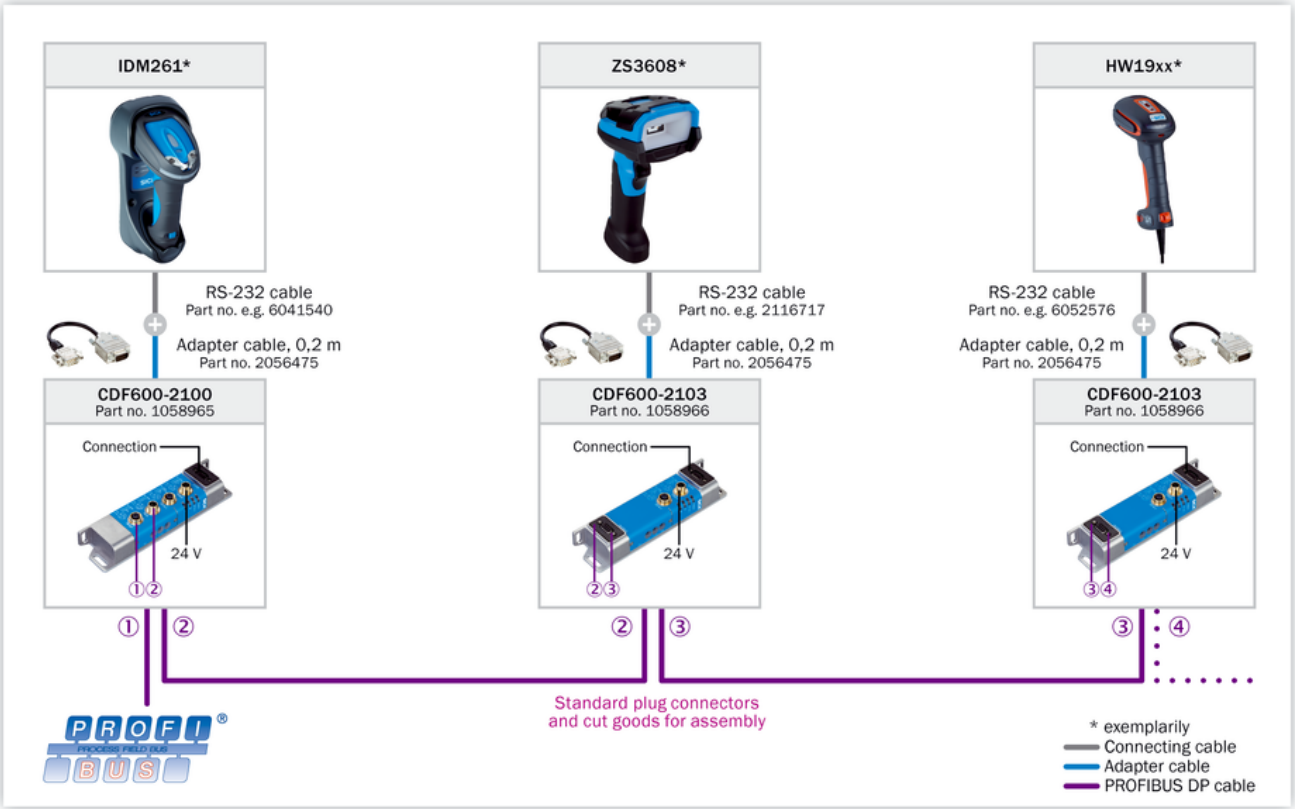
Connection diagram

PROFINET IO/RT



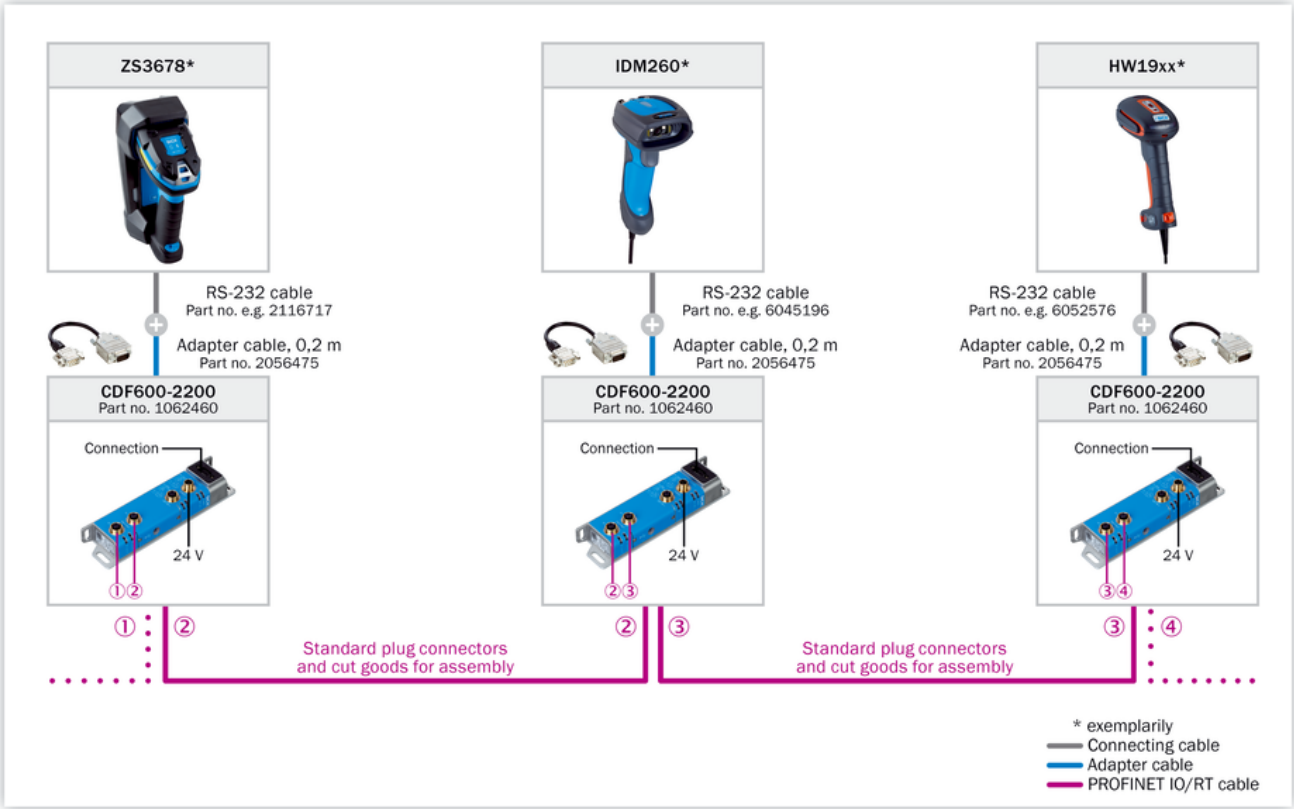
PROFIBUS DP

PROFIBUS DP



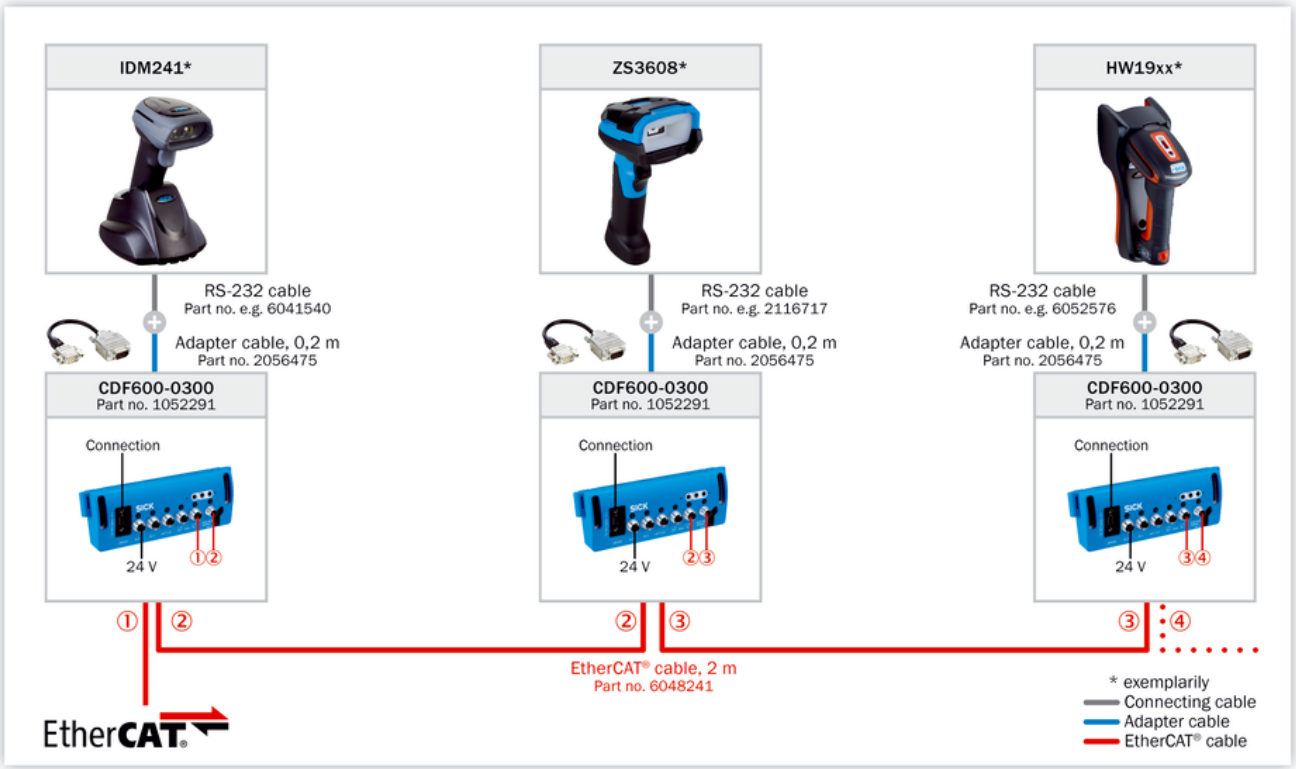
Ethernet TCP/IP

Ethernet TCP/IP



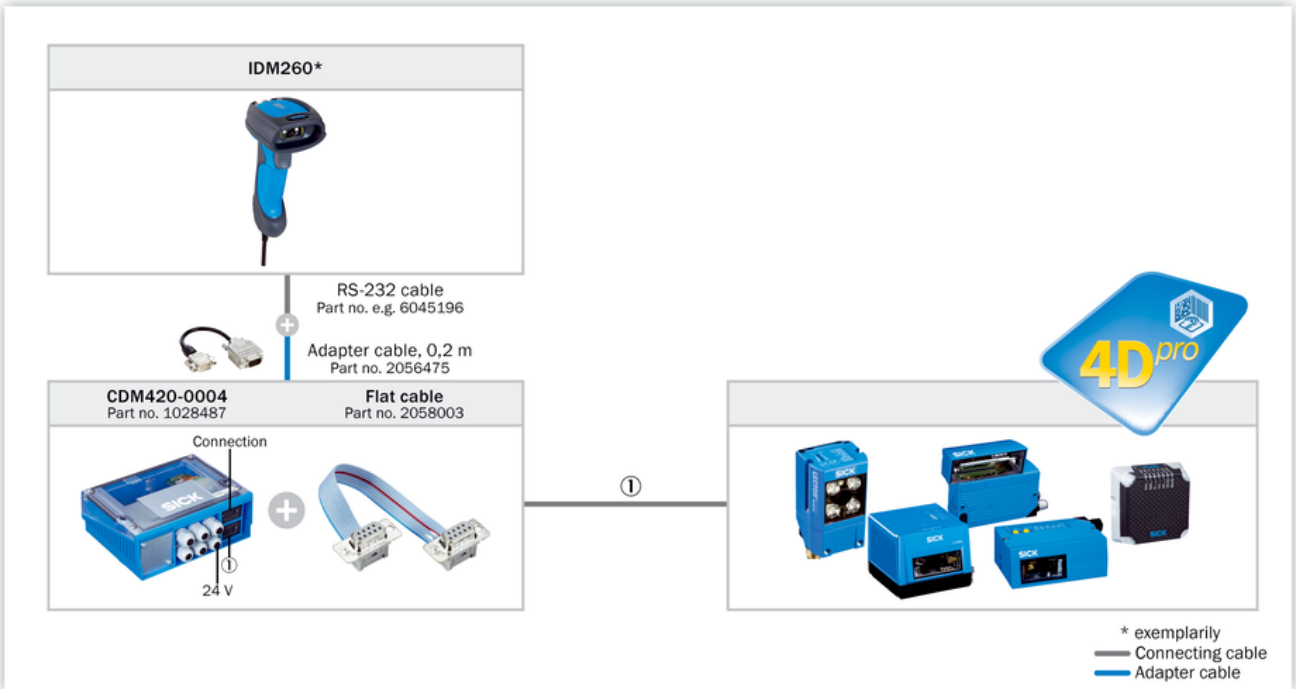
EtherCAT®

EtherCAT®



AUX looping

Looping-in via AUX



Selection Guide

Recommended accessories

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

	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 / CDF600-2, 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

Recommended services

Additional services ➜ www.sick.com/IDM

	Type	Part no.
Extended warranty		
• **Product area:** Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors • **Range of services:** The services correspond to the scope of the statutory manufacturer 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

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.”

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