

SICK.COM



DATA SHEET

IDM12x-301B

IDM
Mobile handheld scanners

SICK Sensor Intelligence

MOBILE HANDHELD SCANNERS

IDM12x-301B

ORDERING INFORMATION

Type	part no.
IDM12x-301B	6050059

Further device versions and accessories at www.sick.com/IDM



DETAILED TECHNICAL DATA

FEATURES

Application	Standard application
Version	Standard Range
Scanner design	Cable connection variant
Light source	LED, Visible, Red, 630 nm
Reading distance	0 mm ... 400 mm ¹⁾
Scanning frequency	≤ 300 Hz
Code resolution	0.1 mm

¹⁾ For details see reading field diagram.

MECHANICS/ELECTRONICS

Supply voltage	5 V DC, ± 5 %
Current consumption	Operation: 170 mA Standby: 75 mA
Housing color	Black
Enclosure rating	IP41
Weight	106 g
Dimensions (L x W x H)	165 mm x 64.7 mm x 38.7 mm

PERFORMANCE

Readable code structures	1D codes
Bar code types	Code 39, Code 32, HIBC, Code 93, Code 11, Codabar, Code 128, UCC/EAN-128, UPC-A, UPC-E, MSI/Plessey, UK/Plessey, IATA, Standard and Industrial 2 of 5, Matrix 2 of 5, Interleaved 2 of 5, Mainland Chi-

na Postal Code, German ITF Postal Code, Telepen, Limited/Expanded GS1 DataBar, Code 39 Trioptic, IATA, UPC / EAN / JAN (with addition)

INTERFACES

Ethernet	Type of fieldbus integration	✓, TCP/IP 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, USB serial
PS/2	Function	✓ Keyboard wedge
Optical indicators		1 LED (good read)
Acoustic indicators		Beeper, can be switched off
Vibration		No
Configuration software		IDM Setup Tool

AMBIENT DATA

Shock resistance	25 drops from 1.5 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	80,000 lx

GENERAL NOTES

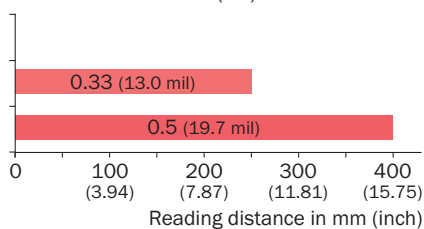
Note	A connecting cable and possibly a power supply unit are still required for commissioning.
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CERTIFICATES

EU declaration of conformity	✓
China RoHS	✓

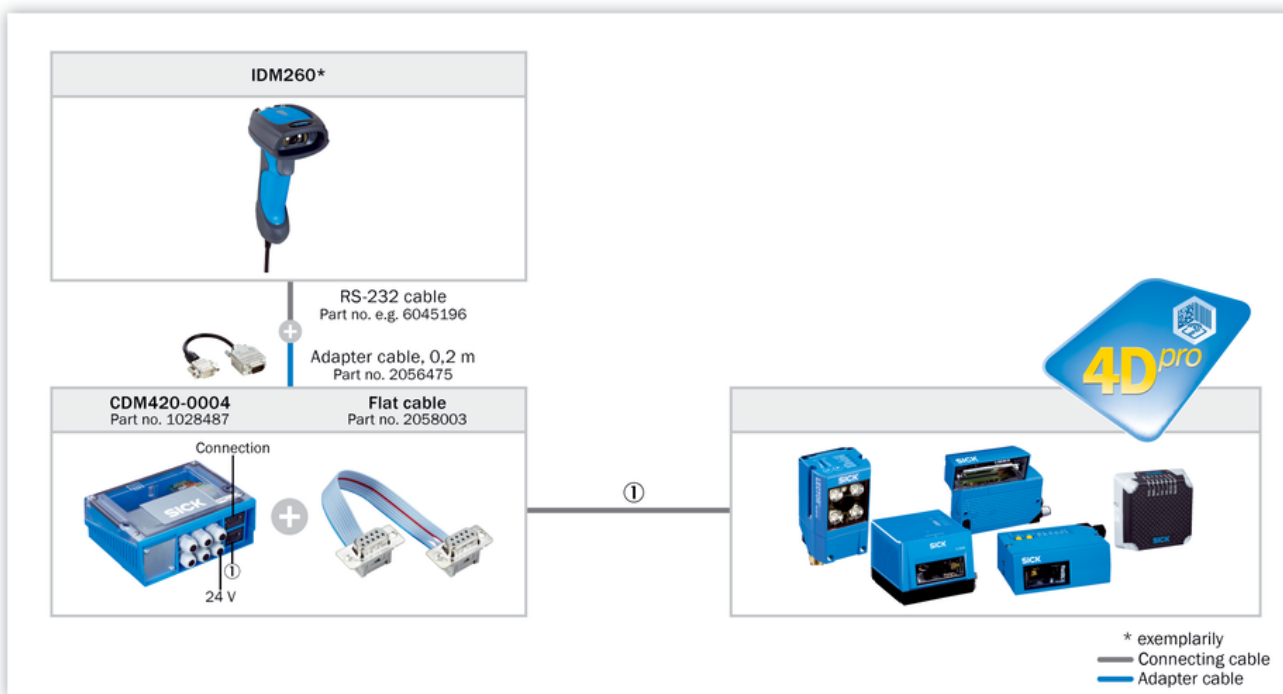
READING FIELD DIAGRAM IDM120-3 STANDARD RANGE

Code resolution in mm (mil)



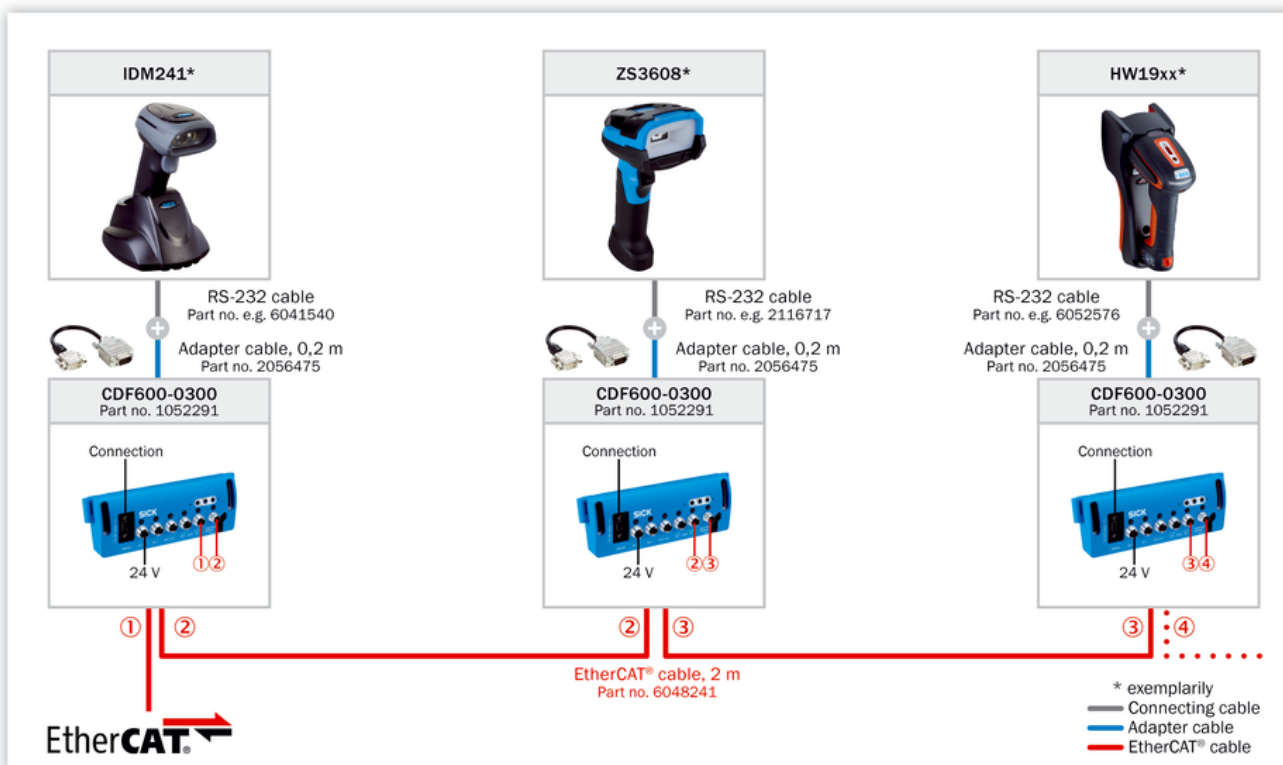
CONNECTION DIAGRAM AUX LOOPING

Looping-in via AUX



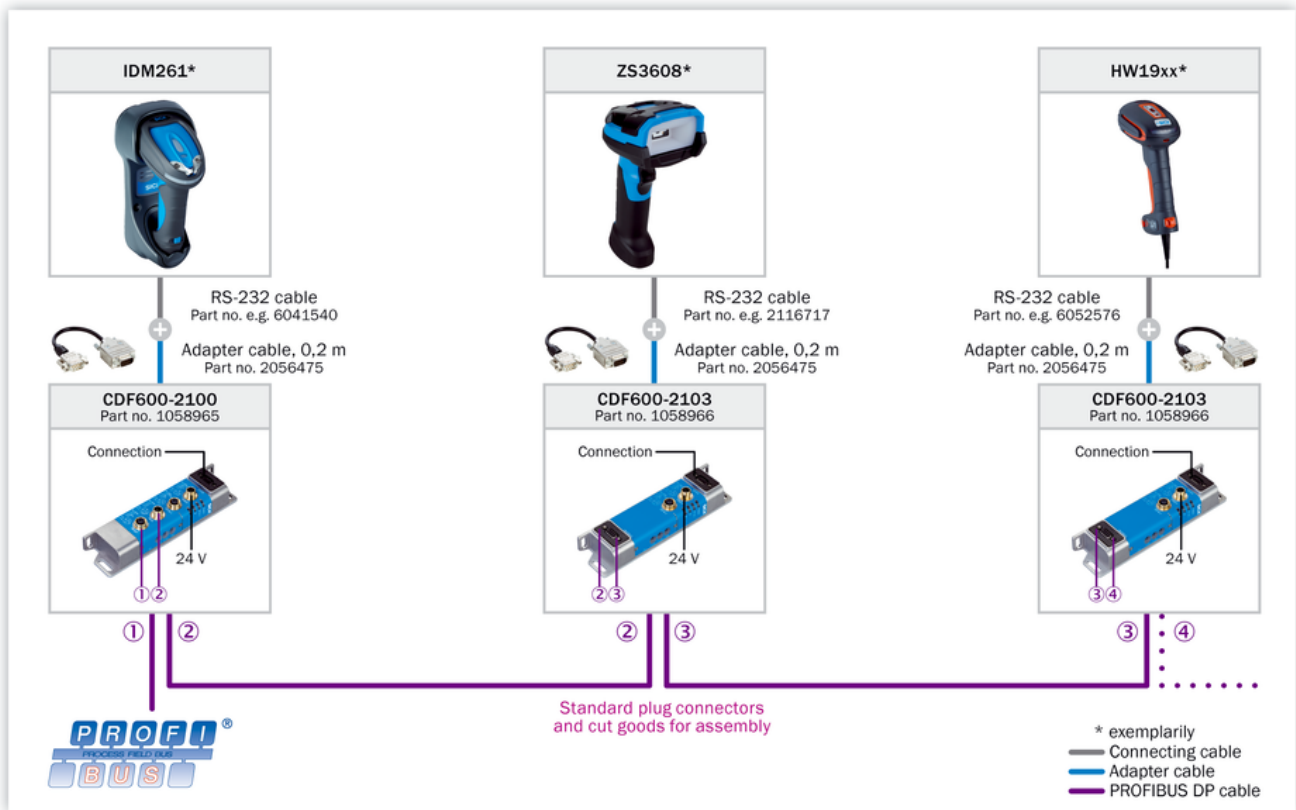
CONNECTION DIAGRAM ETHERCAT®

EtherCAT®



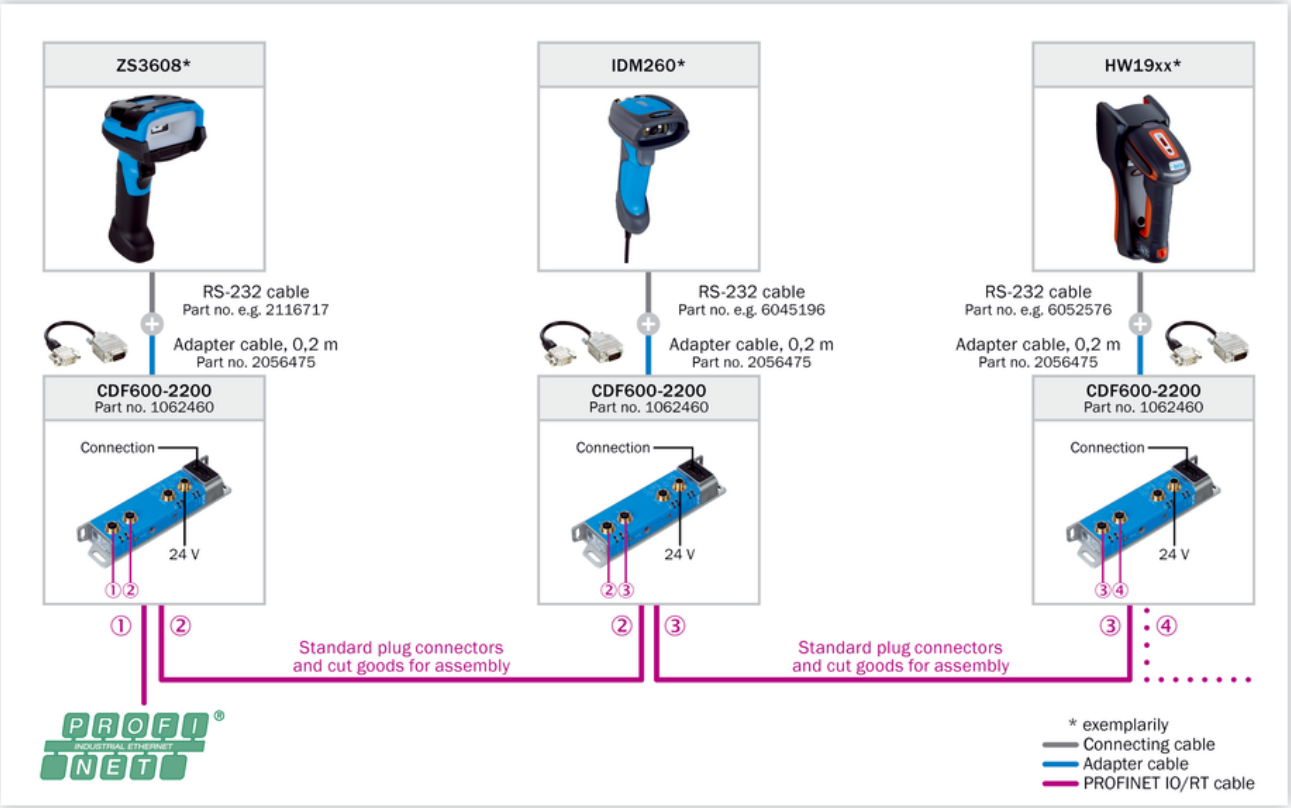
CONNECTION DIAGRAM PROFIBUS DP

PROFIBUS DP



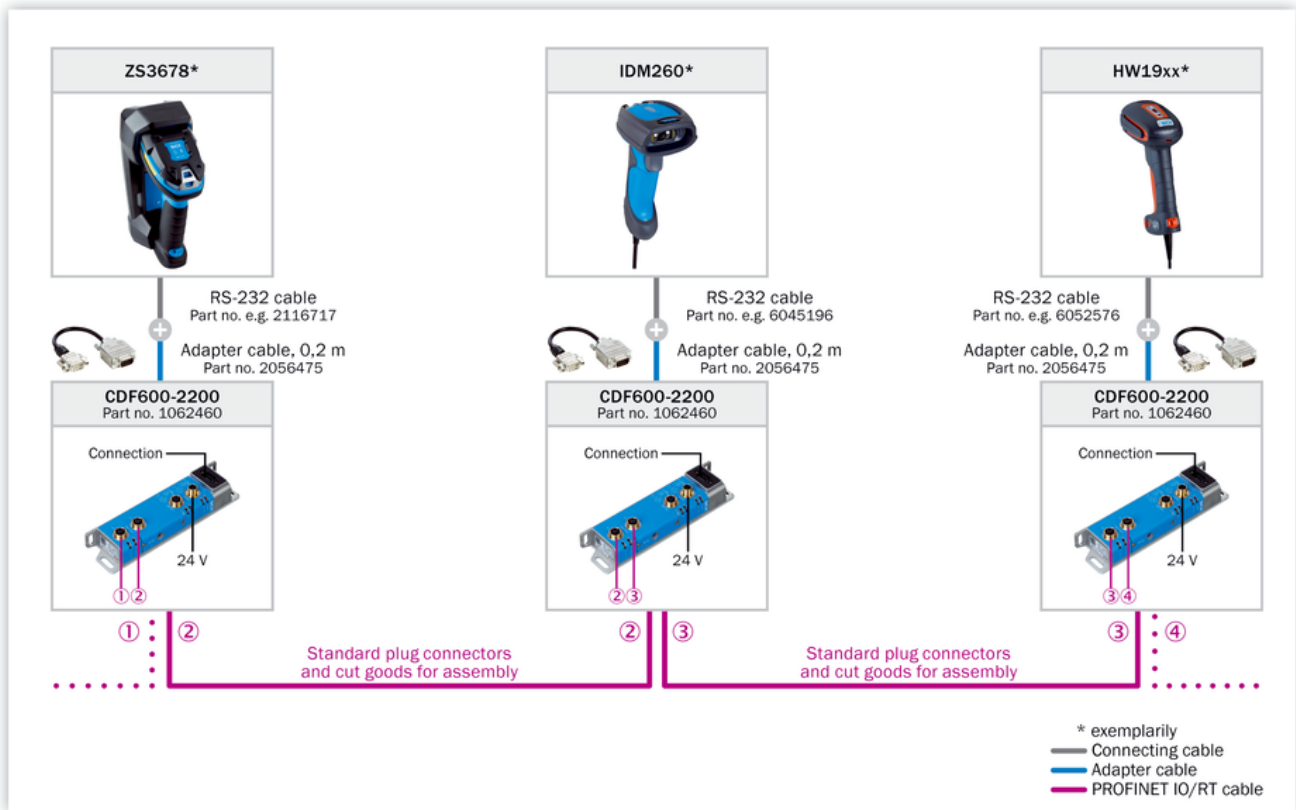
CONNECTION DIAGRAM PROFINET IO/RT

PROFINET IO/RT



CONNECTION DIAGRAM ETHERNET TCP/IP

Ethernet TCP/IP



SELECTION GUIDE



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

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6050059



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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