

# IDM161-411S RS232 Kit

SICK Sensor Intelligence.

**MOBILE HANDHELD SCANNERS** 

MOBILE HANDHELD SCANNERS



## Ordering information

Туре	Part no.
IDM161-411S RS232 Kit	6080747

Included in delivery: Base station (1), IDM161-411S (1), Power supply unit (1), Connection cable (1), Rechargeable battery (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

## C € EAL ₿ Bluetooth®

## 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
Scanning frequency	≤ 500 Hz
Code resolution	≥ 0.076 mm

## Mechanics/electronics

Supply voltage	3.7 V DC <sup>1)</sup>
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, Stacked
Bar code types	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, GS1 DataBar, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC / EAN / JAN, UPC / EAN / JAN (with addition), Telepen, MSI/Plessey, UK/Plessey, Australian Post, China Post, German Post, US Planet, US Postnet, British Post, Intelligent Mail, Japan Post, Korea Post, Dutch KIX Post, Posi LAPA 4 State Code
Stacked code types	PDF417, MicroPDF417, Composite Code
Battery power	Over 60,000 scans with full battery

## IDM161-411S RS232 Kit | IDM MOBILE HANDHELD SCANNERS

Interfaces           Fibernet              • CP/P	Code buffer	80,000 Codes (EAN)
Type of Hieldbus integration         Optional, over external connection module CDF600-2           PROFINET         ✓           Type of Hieldbus 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 CDF600-2           Serial         ✓           PROFINET Single Port, PROFINET Dual Port         ✓           PROFINED DP         ✓           Type of fieldbus integration         Optional over external fieldbus module CDF600-2           PROFINED DP         ✓           Remeth         Øutoonal over external fieldbus module CDF600-2           Bustoph         ✓           Remeth         Øutoonal over external fieldbus module CDF600-2           Remeth         Øutoonal voer external fieldbus module CDF600-2           Remeth         Øutoonal over external fieldbus module CDF600-2           Remeth         Øutoonal voer external fie		
Type of fieldbus integration         Optional, over external connection module CDF600-2           PROFINET         Type of fieldbus integration           Proceedings         Optional over external fieldbus module CDF600-2           Type of fieldbus integration         Optional over external fieldbus module CDF600           Serial            Type of fieldbus integration         Optional over external fieldbus module CDF600           Serial            Type of fieldbus integration         Optional over external fieldbus module CDF600 2           Buetooth <sup>TM</sup> VA.0.2.4022.4830 GHz         Serial           Remain         Optional over external fieldbus module CDF600 2           Buetooth <sup>TM</sup> VA.0.2.4022.4830 GHz         Serial           Remain         Optional over external fieldbus module CDF600 2           Serial            Acoustic indicators         Queton Serial series opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch function for expansion of the wireless opering in range unto 100 m (free view), batch		
PROFINET <ul></ul>		
Ippe of fieldbus integration         Optional over external fieldbus module CDF600 2           EtherCAT         A           Type of fieldbus integration         Optional over external fieldbus module CDF600           Serial         A           Type of fieldbus integration         A           POFIDEUS DP         A           Type of fieldbus integration         A           Bluetooth         VA(0, 2,4022,4830 GHz           Bluetooth         Wireless operating range up to 100 m (free view), batch function for expansion of the wireless inclus. up to seven scanners: communicate with one base station           Optical indicators         Beeper, can be switched off           Vibration         Vise Sego area (charge of battery, radio connection status)           Adous to the seven scanners: communicate with one base station         Seven scanners: Communicate with one base station           Configuration software         Beeper, can be switched off           Vibration         Vise Seven Scanners: Communicate with one base station           Storge temperature         50 dopps from 2 m height on concrete           Ambient operating temperature         50 dopps from 2 m height on concrete           Ambient operating temperature         50 dopps from 2 m height on concrete           Remain Bitter barmidity         Seven Scanners           Class Store         Seven Scanner		
Function         PROFINET Single Port, PROFINET Dual Port           EtherCAT         /           Type of fieldbus integration         /           Sorial         /           Sorial         /           Profiles         /           Type of fieldbus integration         Optional over external fieldbus module CDF600 2           Bulstooth         /           Type of fieldbus integration         Optional over external fieldbus module CDF600 2           Bulstooth         /           Remark         Bulstooth**********************************		
EthercAT         Image: Constraint of the dots module CDF600           Serial            Serial            PROFIBUS DP            Type of fieldbus integration         Optional over external fieldbus module CDF600-2           Butecoth            Remark         Butecoth <sup>TM</sup> V4.0, 2.402 2.4830 GHz           Remark         Subscription on the one proceent section on expension of the wireless and adus, up to seven scanners communicate with one base station           Configuration software         2 UEDs (good read, charge of battery, radio connection status)           Advector software         2 00 Graps from 2 m height on concrete           Ambient digit immunity         20 Software 2 main (sector so constraint on external fieldbus module UD on (ree external fieldbus mo		
Type of fieldbus integration         Optional over external fieldbus module CDF600           Serial            PROFIBUS DP            Type of fieldbus integration         Optional over external fieldbus module CDF600-2           Bluetooth            Type of fieldbus integration         Optional over external fieldbus module CDF600-2           Bluetooth            Bluetooth         Wireless operating range up to 100 m (free view), batch function for expansion of the wireless radius, up to seven scienters communicate with one base station           Optical indicators         Beeper, can be witched off           Vibration         Ves           Configuration software         S0 drops from 2 m height on concrete           Ambient data            Storage temperature         40 °C ~ 70 °C           Permissible relative humidity         195 %, Non-condensing           Ambient light immunity         100,000 k           Class 5.0.1         Class 1.4           Class 5.1.4         27280101           EcLAss		-
Serial            PROFIBUS DP            Type of fieldbus integrate         Optional over external fieldbus module CDF600-2           Bluetooth            Remote         Bluetooth <sup>TM</sup> V4,0,2,4022,4830 GHz           Remote         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         2LEDs (good read, charge of battery, radio connection status)           Acoustic Indicators         Beeper, can be switched off           Configuration software         Us Se           Configuration software         06 drops from 2 m height on concrete           Ambient operating temperature         50 drops from 2 m height on concrete           Ambient operating temperature         20 ° C + 50 ° C           Ambient ight immunity         59 %, Non condensing           Ambient ight immunity         100 on k           Class Sol         0 (290 Ni           Class Sol         2280101           EcLASS Sol         2280101           EcLASS Sol         2780101		
Type of file/bbus integration         Optional over external file/bbus module CDF600-2           File         Subscont         Mutable           Bitemath         Bitemath         Bitemath         Bitemath           Bitemath         Bitemath         Bitemath         Bitemath         Partice           Difical indicators         2 LEDs (good read, charge of battery, radio connection status)         2 LEDs (good read, charge of battery, radio connection status)           Configuration software         2 LEDs (good read, charge of battery, radio connection status)         2 LEDs (good read, charge of battery, radio connection status)           Vibration         2 LEDs (good read, charge of battery, radio connection status)         2 LEDs (good read, charge of battery, radio connection status)           Vibration         2 LEDs (good read, charge of battery, radio connection status)         2 LEDs (good read, charge of battery, radio connection status)           Strate fieldbus integration         2 LEDs (for a 2 m height on concrete         2 month           Ambient operating temperature         90 (for char from 2 m height on concrete         2 month           Ambient operating temperature         90 (for char from 2 m height on concrete         2 month           Ambient operating temperature         90 (for char from 2 m height on concrete         2 month           Internet strate temperature         90 (for char from 2 m height on concrete		
Bilentooth         Image of the second s	PROFIBUS DP	1
Beams         Buetooth <sup>TM</sup> V4.0,2.4022.4830 GH2           Function         Wireless operating range up to 100 m (free view), batch function for expansion of the wireless and allow, up to seven scanners communicate with one base station           Optical indicators         Beaper, can be switched off           Acoustic indicators         Beaper, can be switched off           Vibration         Yes           Configuration software         IoM Setup Tool           Fibech resistance         50 drops from 2 m height on concrete           Ambient operating temperature         -20 °C 450 °C           Ambient operating temperature         -20 °C 450 °C           Ambient operating temperature         -20 °C 450 °C           Fornersolatore         50 drops from 2 m height on concrete           Ambient operating temperature         -20 °C 450 °C           Fornersolatore         50 drops from 2 m height on concrete           Fornersolatore         -20 °C 450 °C           Fornersolatore         -20 °C	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
FunctionWireless operating range up to 100 m (free view), batch function for expansion of the wireless radius, up to seven scanners communicate with one base stationOptical Indicators2 LEDs (good read, charge of battery, radio connection status)Acoustic indicatorsBeeper, can be switched offVibrationYesConfiguration softwareIDM Setup ToolAmbient data50 drops from 2 m height on concreteAmbient operating temperature-20 °C	Bluetooth	✓
radius, up to seven scanners communicate with one base stationOptical Indicators2 LEDs (good read, charge of battery, radio connection status)Acoustic IndicatorsBeeper, can be switched offVibrationYesConfiguration softwareIDM Setup ToolAmbient data50 drops from 2 m height on concreteAmbient operating temperature-20 °C +50 °CStorage temperature-40 °C +70 °CPermissible relative humidity100000 kGeneral notesThe battery is included in deliveryNoteNote or paint wetting impairment substances.Classifications27280101EcLASS 5.027280101EcLASS 6.227280101EcLASS 6.227280101EcLASS 6.227280101EcLASS 7.027280101EcLASS 7.027280101EcLASS 8.027280101EcLASS 8.127280101EcLASS 8.127280101EcLASS 8.127280101EcLASS 8.127280101EcLASS 8.1272801	Remark	Bluetooth <sup>TM</sup> V4.0, 2.402 2.4830 GHz
Acoustic indicatorsBeeper, can be switched offVibrationYesConfiguration softwareIM Setup ToolAmbient dataSoftwaresistanceShock resistanceSo drops from 2 m height on concreteAmbient operating temperature-20 ° C +50 ° CStorage temperature-40 ° C +70 ° CPermissible relative humidity± 95 %, Non-condensingAmbient light immunity100,000 kGeneral notes	Function	
VibrationYesConfiguration softwareIDM Setup ToolAmbient data50 drops from 2 m height on concreteShock resistance50 drops from 2 m height on concreteAmbient operating temperature-20 °C +50 °CStorage temperature-40 °C +70 °CPermissible relative humidity±95 %, Non-condensingAmbient light immunity00.000 lxGeneral notesThe battery is included in deliveryNoteNot free of paint wetting impairment substances.Classifications27280101EcLASS 5.027280101EcLASS 5.1.427280101EcLASS 6.027280101EcLASS 6.027280101EcLASS 5.1.427280101EcLASS 5.1.427280101EcLASS 5.1.427280101EcLASS 5.027280101EcLASS 5.027280101 <th>Optical indicators</th> <th>2 LEDs (good read, charge of battery, radio connection status)</th>	Optical indicators	2 LEDs (good read, charge of battery, radio connection status)
Configuration softwareIDM Setup ToolAmbient dataShock resistance50 drops from 2 m height on concreteAmbient operating temperature-20 ° C +50 ° CAmbient operating temperature-20 ° C +50 ° CStorage temperature-40 ° C +70 ° CPermissible relative humidity± 95 %, Non-condensingAmbient light immunity100,000 kGeneral notes	Acoustic indicators	Beeper, can be switched off
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 k           General notes         The battery is included in delivery           Note         Not free of paint wetting impairment substances.           Classifications         27280101           EcLASS 5.0         27280101           EcLASS 6.0         27280101           EcLASS 6.0         27280101           EcLASS 5.1.4         27280101           EcLASS 5.2         27280101           EcLASS 5.3         27280101           EcLASS 5.0         27280101           EcLASS 5.1.4         27280101           EcLASS 5.1.4         27280101           EcLASS 5.1.4         27280101           EcLASS 5.0         27280101           EcLASS 5.0         27280101           EcLASS 5.1         27280101           EcLASS 5.1         27280101           EcLASS 5.1.0         27280101           EcLASS 5.1.0         27280101           EcLASS 5.1.0	Vibration	Yes
Shock resistance50 drops from 2 m height on concreteAmbient operating temperature-20 °C +50 °CStorage temperature-40 °C +70 °CPermissible relative humidity± 95 %, Non-condensingAmbient light immunity100,000 kGeneral notes	Configuration software	IDM Setup Tool
Ambient operating temperature-20 °C +50 °CStorage temperature-40 °C +70 °CPermissible relative humidity±95 %, Non-condensingAmbient light immunity100,000 kGeneral notesThe battery is included in deliveryNoteNot free of paint wetting impairment substances.Classifications27280101EcLass 5.027280101EcLass 6.027280101EcLass 6.227280101EcLass 7.027280101EcLass 8.027280101EcLass 8.127280101EcLass 9.027280101EcLass 9.027280101EcLass 1.027280101EcLass 1.027280101	Ambient data	
Storage temperature         -40 °C +70 °C           Permissible relative humidity         ± 95 %, Non-condensing           Ambient light immunity         00,000 k           General notes	Shock resistance	50 drops from 2 m height on concrete
Permissible relative humidity± 95 %, Non-condensingAmbient light immunity± 95 %, Non-condensingAmbient light immunity100,000 kGeneral notesImmunityItems suppliedThe battery is included in deliveryNoteNot free of paint wetting impairment substances.Classifications27280101EcLass 5.027280101EcLass 6.027280101EcLass 6.227280101EcLass 7.027280101EcLass 8.027280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 9.027280101EcLass 1.027280101	Ambient operating temperature	-20 °C +50 °C
Ambient light immunity100,000 kGeneral notesItems suppliedThe battery is included in deliveryNoteNot free of paint wetting impairment substances.ClassificationsEcLass 5.027280101EcLass 6.027280101EcLass 6.027280101EcLass 6.227280101EcLass 7.027280101EcLass 8.027280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 8.127280101EcLass 9.027280101EcLass 9.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101	Storage temperature	-40 °C +70 °C
General notesItems suppliedThe battery is included in deliveryNoteNot free of paint wetting impairment substances.Classifications27280101EcLASS 5.027280101EcLASS 5.1.427280101EcLASS 6.027280101EcLASS 6.227280101EcLASS 7.027280101EcLASS 8.127280101EcLASS 8.127280101EcLASS 9.027280101EcLASS 9.027280101EcLASS 10.027280101EcLASS 11.027280101	Permissible relative humidity	± 95 %, Non-condensing
Items suppliedThe battery is included in deliveryNoteNot free of paint wetting impairment substances.Classifications27280101EcLASS 5.027280101EcLASS 5.1.427280101EcLASS 6.027280101EcLASS 6.227280101EcLASS 7.027280101EcLASS 8.027280101EcLASS 8.127280101EcLASS 9.027280101EcLASS 9.027280101EcLASS 10.027280101EcLASS 11.027280101EcLASS 11.027280101	Ambient light immunity	100,000 lx
NoteNot free of paint wetting impairment substances.ClassificationsEcLass 5.027280101EcLass 5.1.427280101EcLass 6.027280101EcLass 6.227280101EcLass 7.027280101EcLass 8.027280101EcLass 8.127280101EcLass 9.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101EcLass 1.0.027280101	General notes	
EcLass 5.0         27280101           EcLass 5.1.4         27280101           EcLass 6.0         27280101           EcLass 6.2         27280101           EcLass 6.2         27280101           EcLass 7.0         27280101           EcLass 8.0         27280101           EcLass 8.1         27280101           EcLass 8.1         27280101           EcLass 9.0         27280101           EcLass 9.0         27280101           EcLass 10.0         27280101           EcLass 11.0         27280101	Items supplied	The battery is included in delivery
ECLASS 5.027280101ECLASS 5.1.427280101ECLASS 6.027280101ECLASS 6.227280101ECLASS 7.027280101ECLASS 8.027280101ECLASS 8.127280101ECLASS 9.027280101ECLASS 9.027280101ECLASS 10.027280101ECLASS 11.027280101	Note	Not free of paint wetting impairment substances.
Eclass 5.1.427280101Eclass 6.027280101Eclass 6.227280101Eclass 7.027280101Eclass 8.027280101Eclass 8.127280101Eclass 9.027280101Eclass 10.027280101Eclass 11.027280101	Classifications	
Eclass 6.027280101Eclass 6.227280101Eclass 7.027280101Eclass 8.027280101Eclass 8.127280101Eclass 9.027280101Eclass 10.027280101Eclass 11.027280101	ECLASS 5.0	27280101
ECLASS 6.2       27280101         ECLASS 7.0       27280101         ECLASS 8.0       27280101         ECLASS 8.1       27280101         ECLASS 9.0       27280101	ECLASS 5.1.4	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 6.0	27280101
ECLASS 8.0       27280101         ECLASS 8.1       27280101         ECLASS 9.0       27280101         ECLASS 10.0       27280101         ECLASS 11.0       27280101	ECLASS 6.2	27280101
ECLASS 8.1         27280101           ECLASS 9.0         27280101           ECLASS 10.0         27280101           ECLASS 11.0         27280101	ECLASS 7.0	27280101
ECLASS 9.0     27280101       ECLASS 10.0     27280101       ECLASS 11.0     27280101	ECLASS 8.0	27280101
ECLASS 10.0         27280101           ECLASS 11.0         27280101	ECLASS 8.1	27280101
ECLASS 11.0 27280101	ECLASS 9.0	27280101
	ECLASS 10.0	27280101
	ECLASS 11.0	27280101
ECLASS 12.0 27280101	ECLASS 12.0	27280101

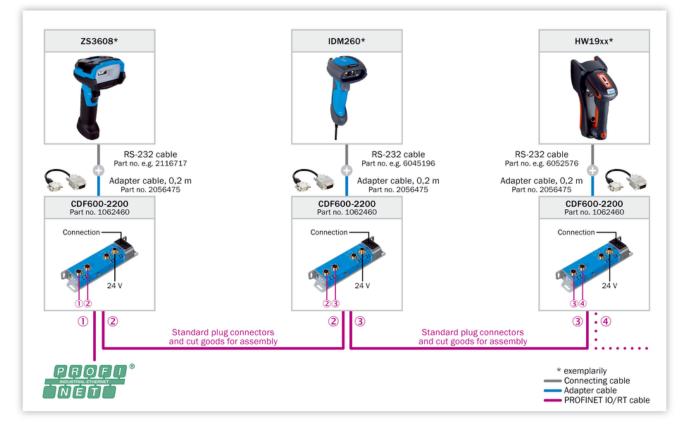
MOBILE HANDHELD SCANNERS

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

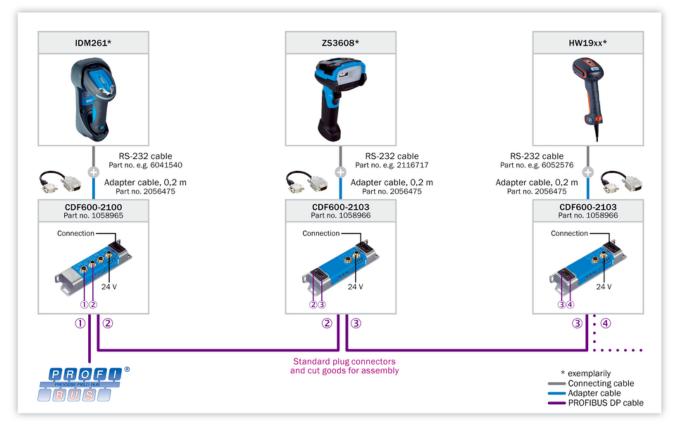
## **PROFINET IO/RT**



MOBILE HANDHELD SCANNERS

#### PROFIBUS DP

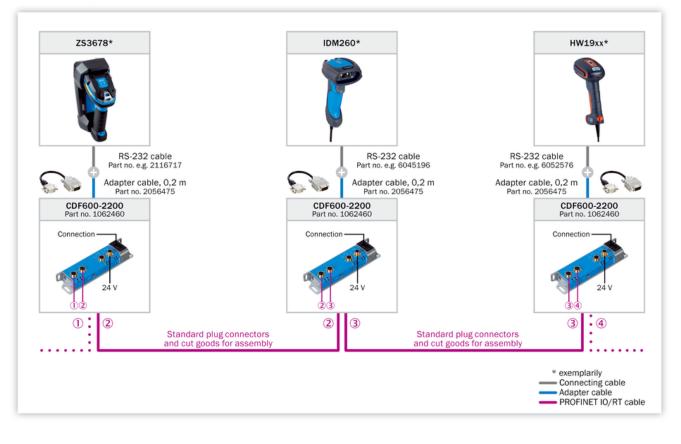
### **PROFIBUS DP**



MOBILE HANDHELD SCANNERS

#### Ethernet TCP/IP

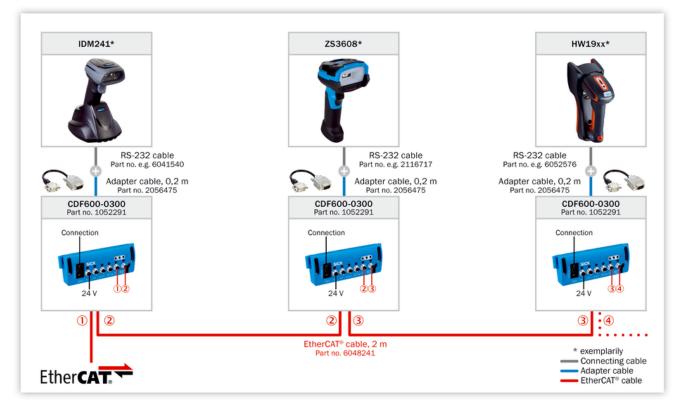
## Ethernet TCP/IP



MOBILE HANDHELD SCANNERS

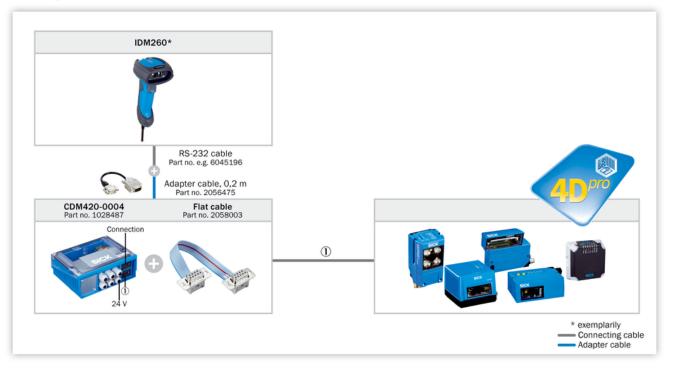
## EtherCAT®

## **EtherCAT®**



#### AUX looping

### Looping-in via AUX



MOBILE HANDHELD SCANNERS

## Selection Guide



## **Recommended services**

Additional services -> www.sick.com/IDM

	Туре	Part no.
Extended warranty		
<ul> <li>Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors</li> <li>Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery).</li> <li>Duration: Five-year warranty from delivery date.</li> </ul>	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."

## WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

