



IDM16x

Industrial mobile reliability

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.

Advantages



Integration into industrial networks

Using modular connection technology, the mobile handheld scanners from SICK can be integrated into numerous fieldbus technologies such as PROFIBUS DP, PROFINET IO/RT, Ethernet TCP/IP, or EtherCAT®. When used in systems such as fixed 1D and 2D cameras or RFID read/write devices, the AUX loop-in is an economical solution.



Especially when it comes to stationary track and trace systems, manual mobile code reading is often required as a back-up. This can be done economically with AUX loop-in.



This video tutorial gives an example of the materials and steps required for integration in a fieldbus network.



Simple PROFIBUS integration into large track and trace systems is possible using the Connection Device Fieldbus fieldbus module.



Simple integration into numerous fieldbus technologies and AUX loop-in for identification systems using modular connectivity



For industrial applications: Tangible benefits to increase your flexibility

The IDM16x mobile hand-held scanner securely and reliably identifies all standard linear and stacked ID codes. Thanks to its rugged, IP65-protected housing, it is able to withstand adverse ambient conditions. At the same time, however, the mobile

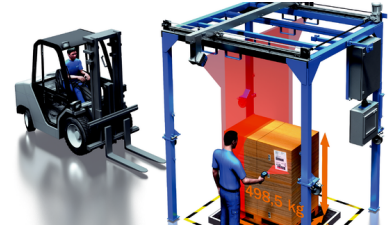
hand-held scanner is light, easy to hold, and can be used simply and intuitively due to its triple read feedback via LED, beeper, and vibration. The wireless variants deliver flexibility and mobility. The combination of reliable code reading, rugged design, and SICK connectivity enables use in an extremely wide range of industrial fields of application.



Container identification in factory automation: A wide range of code types can be reliably identified with only one device.



Data collection in production: Traceability of products and processes through reliable code identification.



Mobile volume detection of piece goods and pallets. The code is detected by the hand-held scanner and the volume measurement is started.



Compact, rugged and shock resistant for harsh and demanding day-to-day work in industrial environments

SICK LifeTime Services

SICK's services increase machine and plant productivity, enhance the safety of people all over the world, provide a solid foundation for a sustainable business operation, and protect investment goods. In addition to its usual consulting services, SICK provides direct on-site support during the conceptual design and commissioning phases as well as during operation.

The range of services not only covers aspects like maintenance and inspection, but also includes performance checks as well as upgrades and retrofits. Modular or customized service contracts extend the service life of plants and therefore increase their availability. If faults occur or limit values are exceeded, these are detected at all times by the corresponding sensors and systems.



Consulting and design

Application-specific advice on the product, its integration and the application itself.



commissioning and maintenance

Application-optimized and sustainable — thanks to professional commissioning and maintenance by a trained SICK service technician.



service contracts

Extended warranty, SICK Remote Service, 24-hour helpdesk, maintenance, availability guarantees and other modular components can be individually combined on request.



Technical data overview

Application	Industrial application
Readable code structures	1D codes, Stacked (depending on type)
Code resolution	≥ 0.076 mm
Reading distance	20 mm ... 850 mm ¹⁾
Ambient operating temperature	-20 °C ... +50 °C (depending on type)
Enclosure rating	IP65
Shock resistance	50 drops from 2 m height on concrete
Ethernet	✓, TCP/IP, Optional, over external connection module
PROFINET	✓, optional over external fieldbus module
EtherCAT	✓, optional over external fieldbus module
Serial	✓, RS-232 TTL
PROFIBUS DP	✓, optional over external fieldbus module
USB	✓
PS/2	✓
Bluetooth	✓

¹⁾ For details see reading field diagram.

Product description

The IDM16x delivers the best performance when identifying bar codes, while offering high availability thanks to its industrial and rugged design. The IP65 housing ensures protection against dust and water: It can withstand 50 drops from 2 m on concrete. The ergonomic, lightweight design of the IDM16x as well as its quick integration into all standard industrial networks means it offers maximum convenience. Thanks to Bluetooth variants, flexibility and mobility are guaranteed. The IDM16x is the ideal choice for higher productivity in factory and logistics automation.

At a glance

- Identification of all popular 1D codes, with PDF version also stacked codes
- Compact housing with up to IP 65 withstanding 50 drops from 2 m on concrete
- Good read feedback via LED, beeper and vibrator
- Supports all popular corded and cordless interfaces as well as industrial fieldbuses via SICK connectivity
- Tool-free exchange of cable and battery
- Corded and cordless versions available

Your benefits

- Increased productivity thanks to fast and reliable identification
- Highly reliable thanks to industrial enclosure rating and rugged housing
- Intuitive good read feedback for noisy industrial environments via vibrator, beeper, and LED
- Maximum user comfort thanks to ergonomic and well-balanced housing, plus low overall weight
- High flexibility and freedom of movement with corded and cordless versions
- Quick integration into common corded or wireless-based PC interfaces as well into industrial networks

Fields of application

- Supports manual processes such as receiving and consignment or shipping within logistics warehouses and distribution centers
- Manual scanning for production control and traceability of products or components in the automotive, electronics, solar, and consumer goods industries

Ordering information

Other models and accessories → www.sick.com/IDM16x

- **Readable code structures:** 1D codes
- **Reading distance:** 20 mm ... 850 mm (For details see reading field diagram.)
- **Code resolution:** ≥ 0.076 mm
- **Application:** Industrial application
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Scanner design	Items supplied	Communication interface	Ambient operating temperature	Type	Part no.
Cable connection variant	Kit	Ethernet, PROFINET, EtherCAT [®] , Serial, PROFIBUS DP	-10 °C ... +50 °C	IDM160-300S RS-232 Kit	6054546
		USB	-10 °C ... +50 °C	IDM160-300S USB Kit	6054545
	Single scanner	Ethernet, PROFINET, EtherCAT [®] , Serial, PROFIBUS DP, USB, PS/2	-10 °C ... +50 °C	IDM160-300S	6054544
Wireless variant	Kit	Ethernet, PROFINET, EtherCAT [®] , Serial, PROFIBUS DP, Bluetooth	-20 °C ... +50 °C	IDM161-300S RS-232 Kit	6054558
		USB	-20 °C ... +50 °C	IDM161-300S USB Kit	6054557
	Single scanner	Ethernet, PROFINET, EtherCAT [®] , Serial, PROFIBUS DP, USB, PS/2, Bluetooth	-20 °C ... +50 °C	IDM161-300S	6054556

- **Readable code structures:** 1D codes, Stacked
- **Reading distance:** 20 mm ... 850 mm (For details see reading field diagram.)
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- **Application:** Industrial application
- **Items supplied:** Single scanner
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Scanner design	Communication interface	Ambient operating temperature	Type	Part no.
Cable connection variant	Ethernet, PROFINET, EtherCAT [®] , Serial, PROFIBUS DP, USB, PS/2	-10 °C ... +50 °C	IDM160-310S	6054547
Wireless variant	Ethernet, PROFINET, EtherCAT [®] , Serial, PROFIBUS DP, USB, PS/2, Bluetooth	-20 °C ... +50 °C	IDM161-310S	6054559

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