IDM16x

Industrial mobile reliability

MOBILE HAND-HELD SCANNERS

SICK
Sensor Intelligence.

Advantages

Integration into industrial networks

Modular connectivity enables integration into many fieldbus technologies: PROFIBUS DP, PROFINET IO, Ethernet TCP/IP, EtherCAT®, DeviceNet™. For use in systems such as fixed 1D bar code scanners, 2D cameras, and RFID reading devices, the AUX connectivity offers a cost-effective 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.
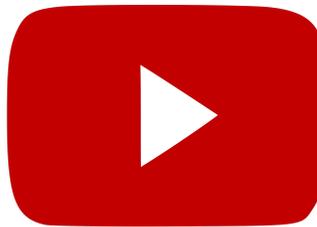
This video tutorial gives an example of the materials and steps required for integration in a fieldbus network.

Easy PROFIBUS integration into large track-and-trace systems with the CDF600 fieldbus module.

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

Industrial purpose: 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 reliability 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
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
DeviceNet™	✓, Optional, over external connection 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

- **Sub product family:** IDM160 Corded
- **Version:** Standard Range
- **Reading distance:** 20 mm … 850 mm (For details see reading field diagram.)
- **Code resolution:** ≥ 0.076 mm

Items supplied	Codes/data cards	Communication interface	Type	Part no.
Kit	1D codes	Ethernet, PROFINET, EtherCAT®, Serial, PROFIBUS DP, DeviceNet™	IDM160-300S RS-232 Kit	6054546
		USB	IDM160-300S USB Kit	6054545
Single scanner	1D codes	Ethernet, PROFINET, Ether-CAT®, Serial, PROFIBUS DP, DeviceNet™, USB, PS/2	IDM160-300S	6054544
	1D codes, Stacked		IDM160-310S	6054547

- **Sub product family:** IDM161 Bluetooth
- **Version:** Standard Range
- **Reading distance:** 20 mm … 850 mm (For details see reading field diagram.)
- **Code resolution:** ≥ 0.076 mm

Items supplied	Codes/data cards	Communication interface	Type	Part no.
Kit	1D codes	Ethernet, PROFINET, Ether-CAT®, Serial, PROFIBUS DP, DeviceNet™, Bluetooth	IDM161-300S RS-232 Kit	6054558
		USB, Bluetooth	IDM161-300S USB Kit	6054557
Single scanner	1D codes	Ethernet, PROFINET, Ether-CAT®, Serial, PROFIBUS DP, De-viceNet™, USB, PS/2, Bluetooth	IDM161-300S	6054556
	1D codes, Stacked		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**

SICK
Sensor Intelligence.