



IDM160-310S

IDM16x

HAND-HELD SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
IDM160-310S	6054547

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



Detailed technical data

Features

Version	Standard Range
Application	Industrial
Scanner design	1D code hand-held scanner
Light source	Visible red light (630 nm)
Scanning frequency	≤ 500 Hz
Code resolution	≥ 0.076 mm
Reading distance	20 mm ... 850 mm ¹⁾

¹⁾ For details see reading field diagram.

Performance

Readable code structures	1D, Stacked
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)
Stacked code types	PDF417, MicroPDF417, Composite, Codablock F

Interfaces

Ethernet	✓, TCP/IP
Type of fieldbus integration	Optional, over external connection module CDM + CMF
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
DeviceNet™	✓

Type of fieldbus integration	Optional, over external connection module CDM + CMF
USB	✓
Function	Keyboard wedge, COM-Port emulation
PS/2	✓
Function	Keyboard wedge
Optical indicators	2 LEDs (operational status, good read)
Acoustic indicators	Beeper, can be switched off
Vibration	Yes
Configuration software	IDM Setup Tool

Mechanics/electronics

Supply voltage	5 V DC, ± 10 %
Current consumption	Operation (vibration activated): 230 mA Operation (vibration deactivated): 180 mA Standby: 80 mA
Housing color	Blue, gray
Enclosure rating	IP65
Weight	208 g, without cable
Dimensions (L x W x H)	104 mm x 76.3 mm x 176 mm

Ambient data

Shock resistance	50 drops from 2 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	100,000 lx

General notes

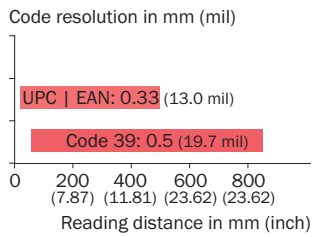
Note	A connecting cable and possibly a power supply unit are still required for commissioning.
-------------	---

Classifications

ECl@ss 5.0	27280101
ECl@ss 5.1.4	27280101
ECl@ss 6.0	27280101
ECl@ss 6.2	27280101
ECl@ss 7.0	27280101
ECl@ss 8.0	27280101
ECl@ss 8.1	27280101
ECl@ss 9.0	27280101
ETIM 5.0	EC002550
ETIM 6.0	EC002550
UNSPSC 16.0901	43211701





Reading field diagram

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



Recommended accessories

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

	Brief description	Type	Part no.
Other mounting accessories			
	Tripod mount	Stand mount	6045193
	Desk holder	Table mount	6045192
Power supply units and power supply cables			
	Power supply, input AC 100 ... 240 V, output DC 5 V/2 A (necessary when using RS-232 TTL cable, does not fulfill medical standard EN 60601/ IEC 60601))	Power supply unit	6036722
Plug connectors and cables			
	Head A: male connector, USB-A Head B: male connector, RJ45 Cable: USB, unshielded, 1.8 m For keyboard wedge or USB Com Port Emulation	Connection cable	6045195

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