



# IDM160-01E

IDM16x

HAND-HELD SCANNERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
IDM160-01E	6045078

Other models and accessories → [www.sick.com/IDM16x](http://www.sick.com/IDM16x)



### Detailed technical data

#### Features

<b>Version</b>	Standard Range
<b>Field of application</b>	Industrial
<b>Scanner design</b>	1D code hand-held scanner
<b>Light source</b>	Visible red light (630 nm)
<b>Scanning frequency</b>	≤ 500 Hz
<b>Code resolution</b>	≥ 0.076 mm
<b>Reading distance</b>	50 mm ... 800 mm <sup>1)</sup>

<sup>1)</sup> For details see reading field diagram.

#### Performance

<b>Readable code structures</b>	1D
<b>Bar code types</b>	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

#### Interfaces

<b>Ethernet</b>	✓, TCP/IP
Type of fieldbus integration	Optional, over external connection module CDM + CMF
<b>PROFINET</b>	✓
Function	PROFINET Dual Port (optional via external connection module CDF600-2)
<b>EtherCAT®</b>	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
<b>Serial</b>	✓, RS-232 TTL
<b>PROFIBUS DP</b>	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
<b>DeviceNet™</b>	✓
Type of fieldbus integration	Optional, over external connection module CDM + CMF
<b>USB</b>	✓

	Function	Keyboard wedge, COM-Port emulation
<b>PS/2</b>		✓
	Function	Keyboard wedge
<b>Optical indicators</b>		2 LEDs (operational status, good read)
<b>Acoustic indicators</b>		Beeper, disengageable (good read)
<b>Vibration</b>		Yes
<b>Configuration software</b>		IDM Setup Tool

#### Mechanics/electronics

<b>Operating voltage</b>	5 V DC, ± 5 %
<b>Current consumption</b>	Operation (vibration activated): 230 mA Operation (vibration deactivated): 180 mA Standby: typ. 90 mA
<b>Housing color</b>	Blue, gray
<b>Enclosure rating</b>	IP65
<b>Weight</b>	200 g, without cable
<b>Dimensions (L x W x H)</b>	104 mm x 76 mm x 185 mm

#### Ambient data

<b>Shock resistance</b>	50 drops from 2 m height on concrete
<b>Ambient operating temperature</b>	-20 °C ... +50 °C
<b>Storage temperature</b>	-30 °C ... +70 °C
<b>Permissible relative humidity</b>	± 95 %, Non-condensing
<b>Ambient light immunity</b>	100,000 lx

#### General notes

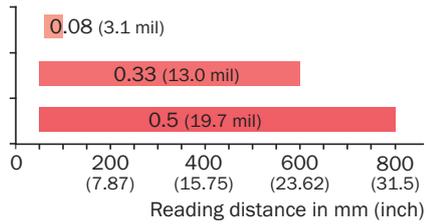
<b>Note</b>	For setting-up operation ia a connection cable and if necessary a power supply unit is additionally required.
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#### Classifications

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

### Reading field diagram

Code resolution in mm (mil)



### Recommended accessories

Other models and accessories → [www.sick.com/IDM16x](http://www.sick.com/IDM16x)

	Brief description	Type	Part no.
<b>Other mounting accessories</b>			
	Tripod mount	Stand mount	6045193
	Desk holder	Table mount	6045192
<b>Power supply units and power supply cables</b>			
	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
<b>Plug connectors and cables</b>			
	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](http://www.sick.com)