IDM120-301B

IDM12x

HAND-HELD SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
IDM120-301B	6050059

Other models and accessories ➜ www.sick.com/IDM12x

Detailed technical data

Features

Version	Standard Range
Field of application	General Purpose
Scanner design	1D code hand-held scanner
Light source	Visible red light (660 nm)
Scanning frequency	≤ 300 Hz
Code resolution	0.1 mm
Reading distance	0 mm ... 400 mm [1]

[1] For details see reading field diagram.

Performance

Readable code structures	1D
Bar code types	Code 39, Code 32, HIBC, Code 93, Code 11, Codabar, Code 128, UCC/EAN-128, UPC-A, UPC-E, MSI/Plessey, UK/Plessey, IATA, Standard and Industrial 2 of 5, Matrix 2 of 5, Interleaved 2 of 5, Mainland China Postal Code, German ITF Postal Code, Telepen, Limited/Expanded GS1 Data-Bar, Code 39 Trioptic, IATA, UPC / EAN / JAN (with addition)

Interfaces

Ethernet		✓, TCP/IP
	Type of fieldbus integration	Optional, over external connection module CDM + CMF
PROFINET		✓
	Function	PROFINET Dual Port (optional via external connection module CDF600-2)
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, USB serial
PS/2		✓
	Function	Keyboard wedge

Optical indicators	1 LED (good read)
Acoustic indicators	Beeper, can be switched off
Vibration	No
Configuration software	IDM Setup Tool

Mechanics/electronics

Operating voltage	5 V DC, ± 5 %
Current consumption	Operation: typ. 170 mA Standby: typ. 75 mA
Housing color	Black
Enclosure rating	IP41
Weight	106 g
Dimensions (L x W x H)	165 mm x 64.7 mm x 38.7 mm

Ambient data

Shock resistance	25 drops from 1.5 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	80,000 lx

General notes
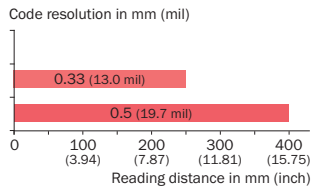
Note	For setting-up operation ia a connection cable and if necessary a power supply unit is additionally required.

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

IDM120-3 Standard Range

Code resolution in mm (mil)

0.33 (13.0 mil)

0.5 (19.7 mil)

| 0 | 100 (3.94) | 200 (7.87) | 300 (11.81) | 400 (15.75) |

Reading distance in mm (inch)

Recommended accessories

Other models and accessories ➜ www.sick.com/IDM12x

	Brief description	Type	Part no.
Other mounting accessories			
	Tripod mount	Stand mount	6036724
	Desk holder	Table mount	6036723
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	6036728

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:

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