CLV503-0000

CLV50x

BAR CODE SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
CLV503-0000	1046315

Other models and accessories ➜ www.sick.com/CLV50x

CE EAC

Detailed technical data

Features

Version	Mid Range
Connection type	Standard
Reading field	Front
Scanner design	Line scanner
Focus	Fixed focus
Light source	Visible red light (650 nm)
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 44°
Scanning frequency	≤ 100 Hz
Code resolution	0.15 mm ... 1 mm
Reading distance	50 mm ... 630 mm [1]

[1] For details see reading field diagram.

Mechanics/electronics

Electrical connection	1 x Cable open cable end (1,5 m)
Supply voltage	5 V DC, ± 10 %
Power consumption	typ. 85 ... 150 mA
Housing color	Light blue (RAL 5012)
Enclosure rating	IP45
Protection class	III
Weight	+ 18.5 g, without cable
Dimensions (L x W x H)	30 mm x 43.3 mm x 20 mm
MTBF	10,000 h

Performance

Readable code structures	1D
Bar code types	Code 11, Code 39, Code 128, Code 93, Codabar, JAN, UPC / GTIN / EAN, Interleaved 2 of 5, 2/5 Industrial, Matrix 2 of 5, China Post, GS1 DataBar (Expanded, Limited, Truncated, 14 Stacked, Expanded Stacked, Stacked, with Composite A/B), IATA, ISBN-ISMN-ISSN, Korea Post, MSI/Plessey, UK/Plessey, S-Code, Telepen, Code 39 Trioptic

Interfaces

Serial	✓
Data transmission rate	≤ 115.2 kBaud
Digital inputs	1 (Reading pulse trigger)
Digital outputs	2 ("Good Read" / "No Read")
Reading pulse	Button at housing, serial command, Digital input
Optical indicators	1 LED
Acoustic indicators	Beeper/buzzer

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-3 (2007-01) [1]
Ambient operating temperature	−10 °C … +45 °C
Permissible relative humidity	± 85 %, Non-condensing
Ambient light immunity	2,000 lx
Bar code print contrast (PCS)	≥ 45 %

[1] For ESD safe installation and cable length ≤ 3 m.

Classifications

ECl@ss 5.0	27280102
ECl@ss 5.1.4	27280102
ECl@ss 6.0	27280102
ECl@ss 6.2	27280102
ECl@ss 7.0	27280102
ECl@ss 8.0	27280102
ECl@ss 8.1	27280102
ECl@ss 9.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
UNSPSC 16.0901	43211701

Dimensional drawing (Dimensions in mm (inch))

① Ø 2; 3.5 deep
② M2; 3.5 length

Reading field diagram

Reading field height in mm (inch)

Reading distance in mm (inch)

Resolution

a: 0.15 mm (5.9 mil)	b: 0.25 mm (9.8 mil)
c: 0.50 mm (19.7 mil)	d: 1.00 mm (39.4 mil)
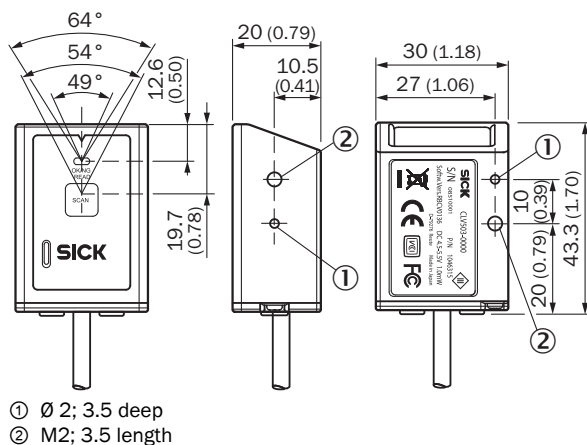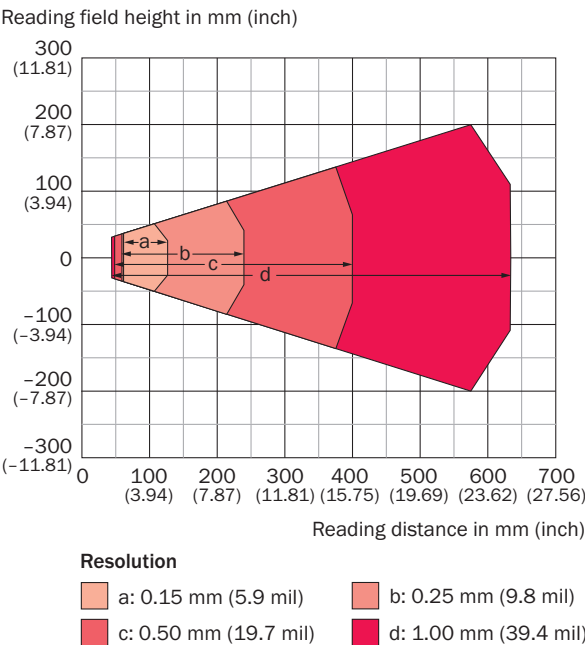
Recommended accessories

Other models and accessories ➜ www.sick.com/CLV50x

	Brief description	Type	Part no.
Mounting brackets and plates			
	Bracket with adapter board	Mounting bracket	2050021

Recommended services

Additional services ➜ www.sick.com/CLV50x

	Type	Part no.
Warranty extensions		
• **Product area:** Identification solutions, Vision, Distance sensors, Detection and ranging solutions • **Range of services:** The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase), Long-term protection for calculable lump sum. • **Duration:** Five-year warranty from date of purchase.	Five-year extended warranty	1680671

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**

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