



CLV503-0000

CLV50x

FIXED MOUNT BARCODE SCANNERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
CLV503-0000	1046315

Other models and accessories → [www.sick.com/CLV50x](http://www.sick.com/CLV50x)



### Detailed technical data

#### Features

<b>Version</b>	Mid Range
<b>Connection type</b>	Cable
<b>Reading field</b>	Front
<b>Sensor type</b>	Line scanner
<b>Optical focus</b>	Fixed focus
<b>Light source</b>	Light spot, laser, Visible, Red, 650 nm
<b>Laser class</b>	2, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 56" from May 8, 2019 (EN 60825-1:2014+A11:2021, IEC 60825-1:2014)
<b>Aperture angle</b>	≤ 44°
<b>Reading distance</b>	50 mm ... 630 mm <sup>1)</sup>
<b>Scanning frequency</b>	≤ 100 Hz
<b>Code resolution</b>	0.15 mm ... 1 mm

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

#### Mechanics/electronics

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

#### Performance

<b>Readable code structures</b>	1D codes
<b>Bar code types</b>	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
<b>Code printing process</b>	Label (printed codes)

## Interfaces

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

## Ambient data

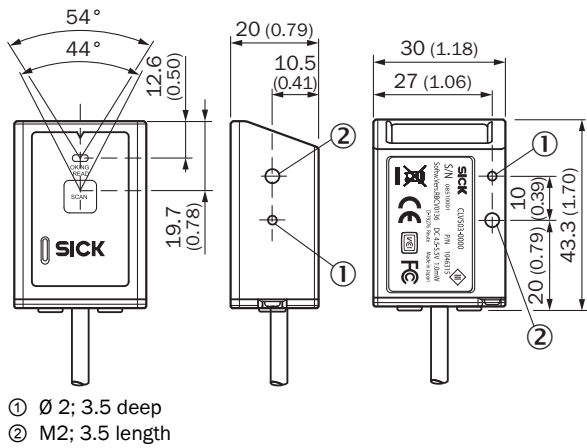
<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-3 (2007-01) <sup>1)</sup>
<b>Ambient operating temperature</b>	-10 °C ... +45 °C
<b>Permissible relative humidity</b>	± 85 %, Non-condensing
<b>Ambient light immunity</b>	2,000 lx
<b>Bar code print contrast (PCS)</b>	≥ 45 %

<sup>1)</sup> For ESD safe installation and cable length ≤ 3 m.

## Classifications

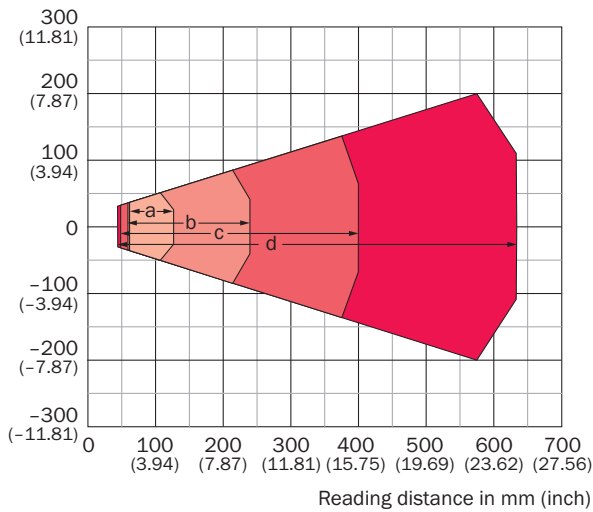
<b>ECLASS 5.0</b>	27280102
<b>ECLASS 5.1.4</b>	27280102
<b>ECLASS 6.0</b>	27280102
<b>ECLASS 6.2</b>	27280102
<b>ECLASS 7.0</b>	27280102
<b>ECLASS 8.0</b>	27280102
<b>ECLASS 8.1</b>	27280102
<b>ECLASS 9.0</b>	27280102
<b>ECLASS 10.0</b>	27280102
<b>ECLASS 11.0</b>	27280102
<b>ECLASS 12.0</b>	27280102
<b>ETIM 5.0</b>	EC002550
<b>ETIM 6.0</b>	EC002550
<b>ETIM 7.0</b>	EC002550
<b>ETIM 8.0</b>	EC002550
<b>UNSPSC 16.0901</b>	43211701

**Dimensional drawing** (Dimensions in mm (inch))




**Reading field diagram**

Reading field height in mm (inch)



**Recommended accessories**

Other models and accessories → [www.sick.com/CLV50x](http://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](http://www.sick.com/CLV50x)

	Type	Part no.
Extended warranty		
<ul style="list-style-type: none"><li>• <b>Product area:</b> Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners</li><li>• <b>Range of services:</b> The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery).</li><li>• <b>Duration:</b> Five-year warranty from delivery date.</li></ul>	Extended warranty for a total of five years from delivery date	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](http://www.sick.com)