



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](http://www.sick.com/CLV50x)



## Detailed technical data

### Features

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

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

### Mechanics/electronics

<b>Electrical connection</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>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
<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

## 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

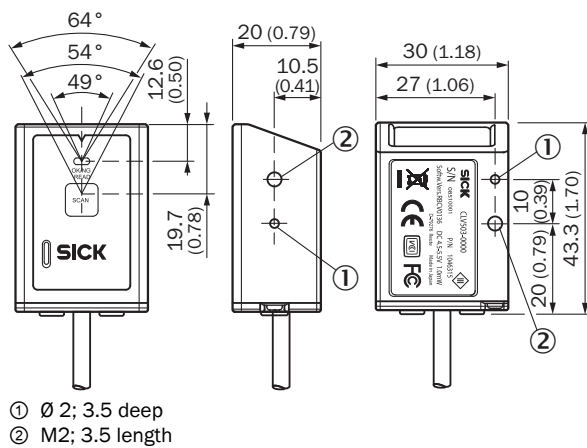
<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-3 (2007-01) <sup>1)</sup>
<b>Ambient operating temperature</b>	-10 °C ... +45 °C
<b>Permissible relative humidity</b>	± 85 %, Non-condensing
<b>Ambient light immunity</b>	2,000 lx
<b>Bar code print contrast (PCS)</b>	≥ 45 %

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

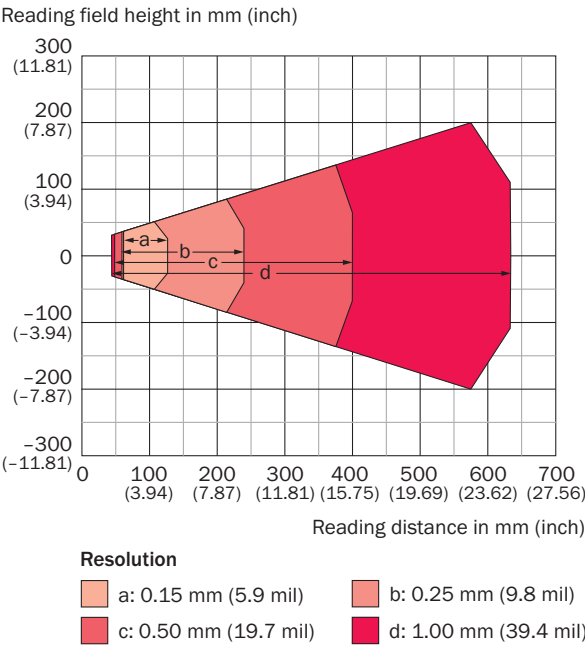
## Classifications

<b>ECI@ss 5.0</b>	27280102
<b>ECI@ss 5.1.4</b>	27280102
<b>ECI@ss 6.0</b>	27280102
<b>ECI@ss 6.2</b>	27280102
<b>ECI@ss 7.0</b>	27280102
<b>ECI@ss 8.0</b>	27280102
<b>ECI@ss 8.1</b>	27280102
<b>ECI@ss 9.0</b>	27280102
<b>ETIM 5.0</b>	EC002550
<b>ETIM 6.0</b>	EC002550
<b>UNSPSC 16.0901</b>	43211701

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




Reading field diagram



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

## 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)