



Bar code scanners  
CLV50x / CLV503 / Mid Range

CLV503-0000



**Model Name** > [CLV503-0000](#)  
**Part No.** > [1046315](#)



**At a glance**

- Extremely compact
- Lightweight
- Easy commissioning
- Fast and reliable decoding even on poorly printed or partly damaged codes
- Available in RS-232 version with flying leads and USB version
- Pushbutton trigger
- Discrete trigger input and good read/no read outputs (flying lead variant only)
- CLV505 available in raster version

**Your benefits**

- Small size and simple setup enables fast installation, even in compact machines
- Fast and easy commissioning using configuration bar codes (shipped with each scanner) and the online tool
- Excellent reading performance - even with poorly printed codes - ensures high throughput
- Pushbutton trigger, onboard LED, and audible beep simplify setup and troubleshooting



**Features**

Version:	Mid Range
Connection type:	Standard
Reading field:	Front
Scanner design:	Line scanner
Focus:	Fixed focus
Light source:	Visible red light (650 nm)
MTBF:	10,000 h
Laser class:	2
Field of view:	≤ 44 °
Code resolution:	0.15 mm ... 1 mm
Reading distance:	50 mm ... 630 mm <sup>1)</sup>
Scanning frequency:	≤ 100 Hz

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

## Performance

---

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

## Interfaces

---

Serial (RS-232): ✓  
Data transmission rate (Serial (RS-232)): ≤ 115,200 Baud  
USB: -  
Switching inputs: 1 (Reading pulse trigger)  
Switching outputs: 2 ("Good Read"/"No Read")  
Reading pulse: Switching input, Serial command, Button at housing  
Optical indicators: 1 LED  
Acoustic indicators: Beeper/buzzer

## Mechanics/electronics

---

Electrical connection: 1 x open cable end  
Operating voltage: 5 V DC ± 10 %  
Housing color: Light blue (RAL 5012)  
Enclosure rating: IP 45  
Protection class: III  
Weight: 18.5 g, without cable  
Dimensions: 30 mm x 43.3 mm x 20 mm

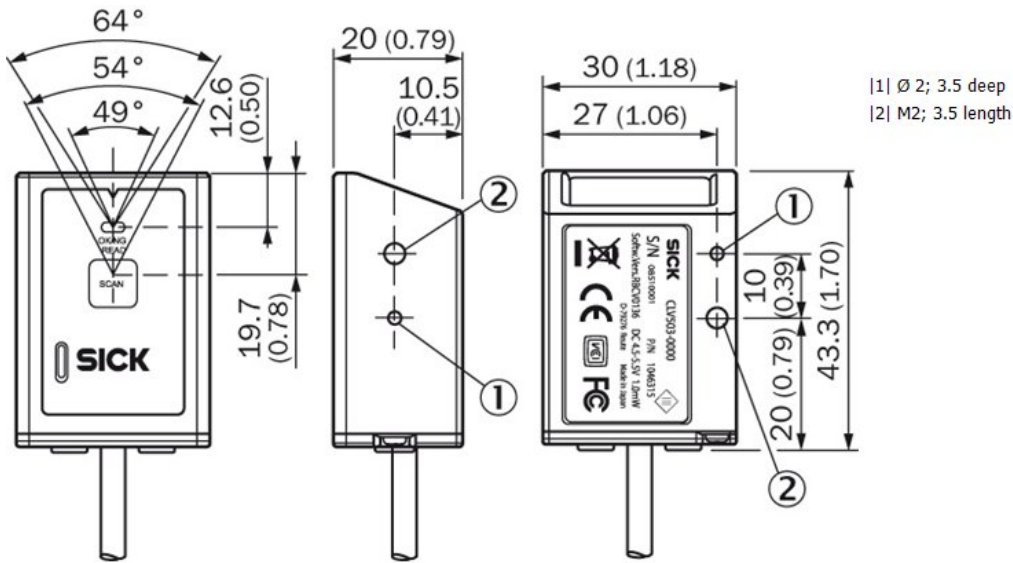
## Ambient data

---

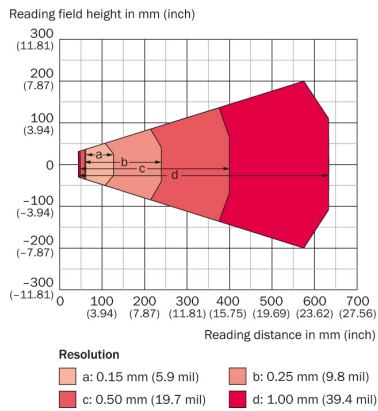
Electromagnetic compatibility (EMC): EN 61000-6-3 (2007-01) <sup>1)</sup>  
Ambient operating temperature: -10 °C ... +45 °C  
Permissible relative humidity: ± 85 %, non-condensing  
Ambient light safety: 2,000 lx  
Bar code print contrast (PCS): ≥ 45 %

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

**Dimensional drawing**



**Reading field diagram**



**Australia**

Phone +61 3 9457 0600  
1800 33 48 02 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail marketing@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6881000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 5309 2112  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail sick@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886 2 2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 88 65 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 (800) 325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)