



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

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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

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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

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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

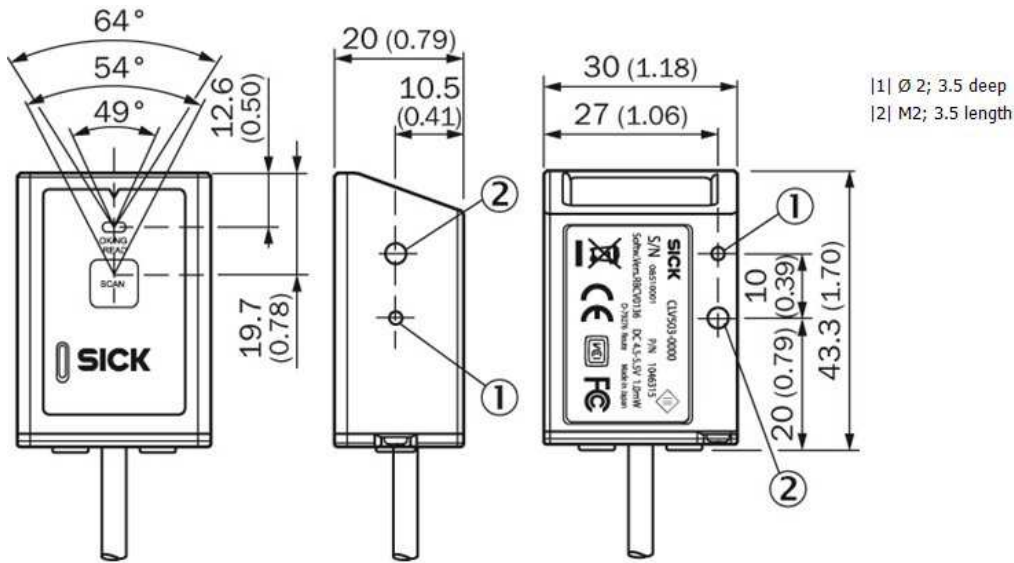
## Ambient data

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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 %

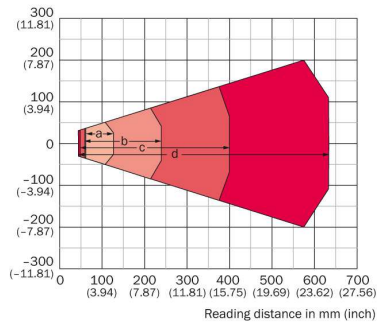
<sup>1)</sup> For ESD safe installation and cable length ≤ 3 m

## Dimensional drawing



## Reading field diagram

Reading field height 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)

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