



## CLV50x

1D code identification using a compact scanner for standard applications

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Optical focus</b>	Fixed focus
<b>Aperture angle</b>	≤ 44° / ≤ 40° (depending on type)
<b>Scanning frequency</b>	≤ 1,000 Hz (depending on type)
<b>Code resolution</b>	0.15 mm ... 1 mm
<b>Reading distance</b>	50 mm ... 630 mm (depending on type)
<b>Serial</b>	✓
<b>USB</b>	✓
<b>Weight</b>	+ 18.5 g / + 30 g (depending on type)

## Product description

SICK's miniature line of barcode scanners are barely larger than a USB plug and can easily be installed where space is extremely limited. The CLV50x series is also easy to configure via its online tool and configuration barcodes. These mini barcode scanners boast excellent decoding performance, with a large depth of field that allows for flexibility in your application. This ultra-compact series is ideal for applications in the OEM and machine builder marketplace, such as packaging systems, circuit board processing, clinical analyzers, robotic inspection, etc. The CLV503 is ideal for slow moving applications – with a scanning frequency of 100 Hz. The CLV505 offers a high scanning frequency of 1,000 Hz and is suitable for conveyor speeds of up to 5 m/s, depending on the application.

## At a glance

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

## Your benefits

- Compact design and easy operation enable installation in situations with limited space
- Fast and easy commissioning using enclosed configuration barcodes 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

## Ordering information

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

- **Optical focus:** Fixed focus
- **Type:** Cable connection variant
- **Code printing process:** Label (printed codes)
- **Communication interface:** Serial
- **Code resolution:** 0.15 mm ... 1 mm
- **Sensor type:** Line scanner
- **Window material:** plastic

Max. reading distance	Enclosure rating	Type	Part no.
≤ 330 mm	IP54	CLV505-0000	1046317
		CLV505-1000	1046319
≤ 630 mm	IP45	CLV503-0000	1046315

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- **Window material:** plastic

Max. reading distance	Enclosure rating	Type	Part no.
≤ 330 mm	IP54	CLV505-0110	1046318
		CLV505-1110	1046320
≤ 630 mm	IP45	CLV503-0110	1046316

## 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)