



CLV45x

Wider range – SMART performance

SICK
Sensor Intelligence.



Technical data overview

Optical focus	Dynamic focus control
Aperture angle	≤ 50°
Scanning frequency	400 Hz ... 1,000 Hz
Code resolution	0.25 mm ... 1 mm (depending on type)
Reading distance	125 mm ... 1,600 mm (depending on type)
Weight	530 g / 700 g (depending on type)

Product description

The CLV45x series of bar code scanners offers dynamic focus control and a large depth of field. This scanner can read bar codes at distances of up to 1.6 m (63 inches). SMART, SICK's advanced code recognition technology, ensures accurate read rates, even with damaged or poorly printed codes. In addition, the profile programming function enables you to configure device parameters without the need for additional tools. The CLV45x series comes in a compact, IP 65-rated housing made of cast aluminum. It is available with an oscillating mirror for applications where the bar code label position varies. The oscillating mirror version can also be used in static applications where the bar code location is poorly defined. Thanks to its outstanding features, the CLV45x can provide a simple and cost-effective solution for applications in material handling and warehousing systems.

At a glance

- Dynamic focus control in real time
- Immune to ambient light
- Large reading distance of up to 1.6 m
- Auto setup ensures automatic optimizing of reading performance
- CAN bus compatible
- High read rates, even with damaged, rotated, or dirty barcodes
- Adjustable scanning frequency up to 1,000 scans per second

Your benefits

- Reliable barcode identification across large reading distances
- Dynamic focus control allows the scanner to accommodate a large depth of field by dynamically adjusting the focus to the object distance
- Compact design and easy operation enable installation in situations with limited space
- Extremely easy to configure, shortening commissioning time
- Short commissioning time
- Reliable operation
- Parameter cloning plug ensures very short MTTR

Ordering information

Other models and accessories → www.sick.com/CLV45x

- **Optical focus:** dynamic focus control
- **Enclosure rating:** IP65

Max. reading distance	Code resolution	Type	Part no.
≤ 780 mm	0.5 mm	CLV451-6010	1019524
≤ 950 mm	0.5 mm	CLV451-0010	1019522
≤ 1,510 mm	0.25 mm ... 1 mm	CLV450-6010	1019218
≤ 1,600 mm	0.25 mm ... 1 mm	CLV450-0010	1018556

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