



CLV60x

1D code identification using a compact CMOS line sensor for short reading distances

SICK
Sensor Intelligence.

Advantages



For small installation spaces

Strong reading performance at an excellent price-performance ratio: The CLV60x fixed mount barcode scanner reads codes reliably even at short reading distances thanks to 2-Kpixel CMOS technology. Its large aperture angle of 71° and flexible device variants make the CLV60x virtually unrivaled for use in systems where installation space is tight.



Space is tight? No problem.

The smaller the installation space, the greater the challenge for the fixed mount barcode scanner. The compact device design of the CLV60x allows for easy installation even where space is tight.



Flexible mounting thanks to different viewing windows

Is the available installation space too small or too narrow? The location of the viewing window on the sensor determines its installation options. To use all available installation space, the CLV60x offers device variants with a front or side viewing window to meet this challenge with flexibility.



Short reading distance due to large aperture angle

Thanks to the CMOS technology, the CLV60x achieves an aperture angle of 71°. This results in a reading field height of 80 mm at a distance of only 30 mm from the object. This is particularly valuable if space in the system is tight.

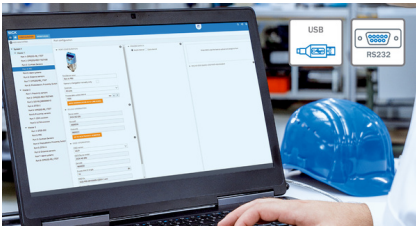


The future-proof CMOS technology, the large aperture angle and the compact device design allow for installation even where space is tight.



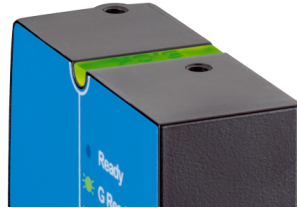
Easy commissioning and simple operation

Everything really can be very simple. The CLV60x impresses with its clear concept, which is designed to make things as easy as possible for plant operators. Plug-and-read: USB interface, fixed focus adjustment and an LED display that is visible from virtually anywhere during operation – it couldn't be easier.



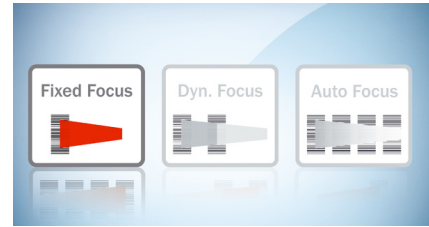
RS-232 or USB for easy parameterization

Connection to the controller or the industrial computer is made via RS-232 or USB interface. Operation is controlled via the SOPAS ET software. This eliminates the need for time-consuming trainings or instruction phases for operating personnel.



Clearly visible display with status LED

The multicolor status LED can be read from virtually any viewing angle. This is invaluable when installation space is tight and visibility is restricted. For example, doing a visual check to determine whether a reading was successful is easy, even without a PC.

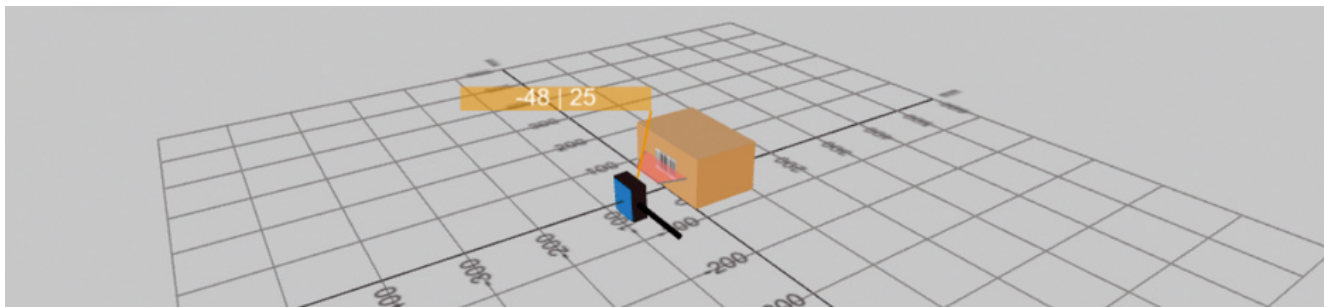


Fixed focus without additional settings

The fixed focus for fixed reading distances makes adjustment quick and easy during commissioning.



Convenient and easy connection, even during operation.



Virtual product demo before purchase? SICK makes it possible.

Bring our products to life: Our reading field visualization tools can be used to visualize all CLV60x device variants. Select your device parameters and use our tool to find out which product variant is the best one for your device. Uncertainty when selecting products is a thing of the past.



Use product visualization to help you select the exact right product before you buy.



SICK LifeTime Services

From consulting to modernization: SICK LifeTime Services increase the productivity of plants and machines, improve the safety of your employees, and provide a solid foundation for sustainable business operations. As a solution provider, SICK works with you to manage the holistic implementation of projects relating to industrial automation, safety and digitalization.



Comprehensive industry know-how and more than 75 years of practical experience create ideas and provide knowledge for your solutions. Find out more



Technical data overview

Optical focus	Fixed focus
Aperture angle	≤ 71° / ≤ 62° (depends on variant)
Scanning frequency	750 Hz
Code resolution	0.125 mm ... 0.5 mm (depends on variant)
Reading distance	15 mm ... 105 mm (depends on variant)
Serial	✓, RS-232 / ✓ (depends on variant)
USB	✓
Weight	170 g ... 230 g (depends on variant)

Product description

The CLV60x fixed mount barcode scanner is ideal for identifying 1D codes at short reading distances. With a compact design and 2K pixel CMOS sensor, the CLV60x offers reliable barcode reading at a good price-performance ratio. Its reading features are especially noteworthy, even at short reading distances. Thanks to its high 750 Hz scanning frequency, CLV60x is suited to fast applications. Configuration is easy with the SOPAS ET user interface. CLV60x is set apart by its small space requirements and can be integrated in small machines. The product comes in in two versions: 5 V and 12–24 V DC, both with optional ESD protection.

At a glance

- High reading field height even at 30 mm distance
- 2K pixel CMOS technology
- LED status indicator detected from nearly any direction
- Optional customer remodels
- 750 Hz scanning frequency
- Front/Side reading
- Supply voltage 5 V/12 ... 24 V DC
- Optional ESD bracket protection

Your benefits

- Minimal space requirements for integration in even the smallest machines
- High performance at a cost-efficient price
- It's a sound investment thanks to the long-term availability of CMOS technology and proven SICK quality
- Easy operation and installation with the SOPAS ET user interface and the ingeniously positioned LED status indicator
- RS-232 or USB communication interface to control the industrial devices

Fields of application

- IVD clinical analysis in multiple racks & sample carousels
- PCB code ID/RGV positioning in semiconductor applications
- Packaging/Labeling code ID
- Kiosks, cashier systems, read-after-print, integration on robot arms
- Object codes ID in limited space applications

Ordering information

Other models and accessories → www.sick.com/CLV60x

- **Optical focus:** Fixed focus
- **Type:** Cable connection variant
- **Code printing process:** Label (printed codes)
- **Communication interface:** Serial
- **Sensor type:** Line scanner
- **Window material:** plastic
- **Enclosure rating:** IP40

Max. reading distance	Code resolution	Type	Part no.
≤ 70 mm	0.125 mm ... 0.5 mm	CLV601-0D200	1079204
		CLV601-1D200	1079206
		CLV601-2A200	1147229
		CLV601-2D200	1133380
		CLV601-2E201	1136146
		CLV601-3A201	1150905
		CLV601-3D200	1133404
		CLV601-3E201	1136147
≤ 105 mm	0.2 mm ... 0.5 mm	CLV602-0D200	1107574
		CLV602-2A201	1150906
		CLV602-2D200	1133407
		CLV602-2E201	1136857

- **Optical focus:** Fixed focus
- **Type:** Cable connection variant
- **Code printing process:** Label (printed codes)
- **Communication interface:** USB
- **Max. reading distance:** ≤ 70 mm
- **Code resolution:** 0.125 mm ... 0.5 mm
- **Sensor type:** Line scanner
- **Window material:** plastic
- **Enclosure rating:** IP40

Type	Part no.
CLV601-0U110	1079205
CLV601-1U110	1079207

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