



CLV62x

1D code identification using a rugged scanner with flexible interface concept

SICK
Sensor Intelligence.

Advantages



Challenges exist to be overcome

The compact CLV62x shows just how flexible fixed mount barcode scanners can be when it comes to interfaces. Depending on the device variant, it offers different connection options, either via an integrated interface or a gateway. The IP69K variant in the stainless-steel housing delivers reliable results even when ambient conditions are particularly harsh, such as in the food industry.

**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 CLV62x allows for easy installation even where space is tight.

**Communication via tried and tested interfaces**

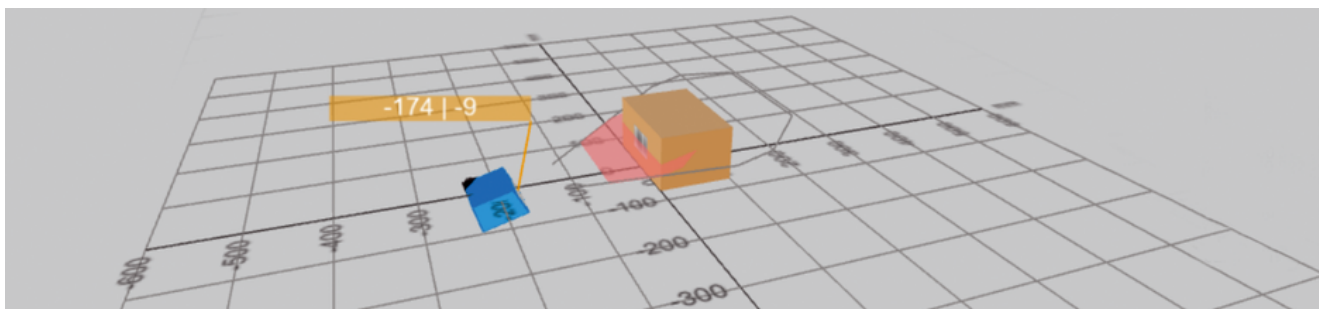
The CLV62x covers all common interfaces and therefore offers a high degree of flexibility for integration into the control environment – and without major cabling effort. In the event that the device is replaced, the cloning function ensures high system availability. Depending on the variant, the sensor has integrated communication interfaces or external interfaces by means of a connection module.

**Steadfast in harsh environments**

Cleaning processes at high temperatures, with high-pressure jets or aggressive cleaning products are part of everyday life in the food industry. The IP69K device variants of the CLV62x with Inox stainless-steel housing, integrated plastic viewing window and Ecolab-certified cables easily withstand these conditions.



The CLV62x handles demanding reading conditions with flexibility and reliability.



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 CLV62x 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

SICK's services increase machine and plant productivity, enhance the safety of people all over the world, provide a solid foundation for a sustainable business operation, and protect investment goods. In addition to its usual consulting services, SICK provides direct on-site support during the conceptual design and commissioning phases as well as during operation.

The range of services not only covers aspects like maintenance and inspection, but also includes performance checks as well as upgrades and retrofits. Modular or customized service contracts extend the service life of plants and therefore increase their availability. If faults occur or limit values are exceeded, these are detected at all times by the corresponding sensors and systems.



Consulting and design

Application-specific advice on the product, its integration and the application itself.



commissioning and maintenance

Application-optimized and sustainable — thanks to professional commissioning and maintenance by a trained SICK service technician.



service contracts

Extended warranty, SICK Remote Service, 24-hour helpdesk, maintenance, availability guarantees and other modular components can be individually combined on request.



Technical data overview

Optical focus	Fixed focus
Aperture angle	≤ 50°
Scanning frequency	400 Hz ... 1,200 Hz
Code resolution	0.15 mm ... 1 mm (depending on type)
Reading distance	25 mm ... 730 mm (depending on type)
PROFINET	✓, optional over external fieldbus module / ✓ (depending on type)
EtherCAT	✓, optional over external fieldbus module
Serial	✓, RS-232, RS-422, RS-485
CAN	✓
CANopen	✓
PROFIBUS DP	✓, optional over external fieldbus module
Ethernet	✓, TCP/IP
EtherNet/IP™	✓
Weight	205 g ... 854 g (depending on type)

Product description

The CLV62x product family consists of compact, powerful fixed mount barcode scanners which were designed for a wide range of applications. Powerful, simple operation and flexibility are terms which characterize the CLV62x product family. The CLV62x combines a high reading performance with the SMART620 code reconstruction system: A reading algorithm that can accurately identify barcodes even if they are damaged or partially covered. The CLV62x is available as a standard variant, or with an integrated Ethernet interface, including Ethernet/IP and PROFINET protocols. The high-performance scanner features a range of additional functions such as remote diagnostics, which are enabled by the integrated web server and integrated evaluation of read statistics.

At a glance

- CAN, Ethernet TCP/IP, PROFINET, and EtherNet/IP available on board, no additional gateway needed (depending on variant)
- SMART620 code reconstruction technology
- Flexible sorting, filtering, and logical functions
- Advanced, easy-to-use SOPAS configuration software
- High scanning frequency of up to 1,200 Hz
- Small housing
- Advanced remote diagnostics and network monitoring capabilities available over Ethernet
- IP 65 or IP 69K rated (depending on type)

Your benefits

- High read rate of damaged, dirty, and partially covered barcodes due to enhanced SMART620 code reconstruction
- Increased scanner intelligence enables sophisticated configuration of logical operations, reducing the control system programming effort. Data is then delivered in the desired format
- No supplementary Ethernet gateway required with Ethernet models – lowers costs
- The CLV62x scanner can be used as a multiplexer in any CAN scanner network from SICK – no supplementary multiplexer necessary
- Real-time code identification even at very high conveyor speeds
- Compact design and easy operation enable installation in situations with limited space

Fields of application

- Warehouse conveyor technology: picking station, container and pallet foot identification
- Food and beverage: inspection of barcode for legibility after printing, barcode identification in packaging and secondary packaging processes
- Medical technology: clinical analysis
- Aggregation of food and pharmaceutical packaging

Ordering information

Other models and accessories → www.sick.com/CLV62x

- **Optical focus:** Fixed focus
- **Type:** Cable connection variant
- **Code printing process:** Label (printed codes)
- **Communication interface:** PROFINET, EtherCAT®, Serial, CAN, CANopen, PROFIBUS DP
- **Enclosure rating:** IP65

Max. reading distance	Code resolution	Sensor type	Window material	Type	Part no.
≤ 200 mm	0.15 mm ... 0.5 mm	Line scanner	Glass	CLV622-0000	1041792
				CLV622-2000	1041796
		Raster scanner	Plastic	CLV622-0001	1047882
			Glass	CLV622-1000	1041794
				CLV622-3000	1041798
≤ 330 mm	0.2 mm ... 1 mm	Line scanner	Glass	CLV620-2000S01	1064461
≤ 345 mm	0.2 mm ... 1 mm	Line scanner	Glass	CLV620-2000	1041550
		Raster scanner	Glass	CLV620-3000	1041552
				CLV620-3300	1047825
≤ 365 mm	0.2 mm ... 1 mm	Line scanner	Glass	CLV620-0000	1040288
				CLV620-0300	1053918
		Raster scanner	Glass	CLV620-1000	1041548
≤ 730 mm	0.35 mm ... 1 mm	Line scanner	Glass	CLV621-0000	1041784
				CLV621-2000	1041788
		Raster scanner	Glass	CLV621-1000	1041786
				CLV621-3000	1041790

- **Optical focus:** Fixed focus
- **Type:** Rotary angle variant single port (12-pin)
- **Code printing process:** Label (printed codes)
- **Communication interface:** Ethernet, PROFINET, EtherNet/IP™, EtherCAT®, Serial, CAN, CANopen, PROFIBUS DP
- **Enclosure rating:** IP65

Max. reading distance	Code resolution	Sensor type	Window material	Type	Part no.
≤ 200 mm	0.15 mm ... 0.5 mm	Line scanner	Glass	CLV622-0120	1041793
				CLV622-2120	1041797
			Plastic	CLV622-0121	1044794
		Raster scanner	Glass	CLV622-1120	1041795
				CLV622-3120	1041799
			Plastic	CLV622-1121	1043067
				CLV622-3121	1043068
≤ 365 mm	0.2 mm ... 1 mm	Line scanner	Glass	CLV620-0120	1041547
				CLV620-2120	1041551
			Plastic	CLV620-0121	1044573
		Raster scanner	Glass	CLV620-1120	1041549
				CLV620-3120	1041553

Max. reading distance	Code resolution	Sensor type	Window material	Type	Part no.
≤ 730 mm	0.35 mm ... 1 mm	Line scanner	Glass	CLV621-0120	1041785
				CLV621-2120	1041789
		Raster scanner	Glass	CLV621-1120	1041787
				CLV621-3120	1041791

- **Optical focus:** Fixed focus
- **Type:** Rotary angle variant single port (17-pin)
- **Code printing process:** Label (printed codes)
- **Communication interface:** Ethernet, PROFINET, EtherNet/IP™, EtherCAT®, Serial, CAN, CANopen, PROFIBUS DP
- **Window material:** Glass
- **Enclosure rating:** IP65

Max. reading distance	Code resolution	Sensor type	Type	Part no.
≤ 365 mm	0.2 mm ... 1 mm	Line scanner	CLV620-0830	1050940
≤ 730 mm	0.35 mm ... 1 mm	Line scanner	CLV621-0830	1067571
		Raster scanner	CLV621-1830	1067572

- **Optical focus:** Fixed focus
- **Code printing process:** Label (printed codes)
- **Communication interface:** Ethernet, PROFINET, EtherNet/IP™, EtherCAT®, Serial, CAN, CANopen, PROFIBUS DP
- **Max. reading distance:** ≤ 347 mm
- **Code resolution:** 0.2 mm ... 1 mm
- **Window material:** plastic
- **Enclosure rating:** IP69K

Sensor type	Type	Part no.
Line scanner	CLV620-0831S01	1066374
Raster scanner	CLV620-1831S01	1067933

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