



CLV63x

Intelligent scanning solution for logistics and automation

FIXED MOUNT BAR CODE SCANNERS

SICK
Sensor Intelligence.



Technical data overview

Optical focus	Fixed focus
Aperture angle	≤ 50°
Scanning frequency	400 Hz ... 1,200 Hz
Code resolution	0.2 mm ... 1 mm (depending on type) (depending on type)
Reading distance	44 mm ... 735 mm (depending on type) (depending on type)
PROFINET	✓, optional over external fieldbus module / ✓ (depending on type) (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
DeviceNet™	✓, Optional, over external connection module
Ethernet	✓, TCP/IP
EtherNet/IP™	✓
Weight	250 g ... 1,230 g (depending on type) (depending on type)

Product description

The CLV63x product family consists of compact, powerful fixed mount bar code scanners which were designed for a wide range of applications.

The CLV63x combines a high reading performance with the improved SMART code reconstruction system: A reading algorithm that can accurately detect bar codes even if they are damaged or partially covered.

Integrated function buttons and a built-in LED bar graph enable the device to be commissioned quickly, the reading diagnosis to be started easily, and a matchcode to be taught in without a PC. The parameterization of the scanner can be saved externally via a microSD memory card.

A variety of reading distances can be covered by long-, mid- and short-range variants. All variants such as line or grid scanners, side light emission and oscillating mirrors as well as Ethernet versions are available.

At a glance

- Integrated function buttons, e. g., for starting auto setup or reading quality evaluation
- Integrated LED bar graph
- CAN, Ethernet TCP/IP, PROFINET, and EtherNet/IP on board. No additional Ethernet gateway required (for "Ethernet" connection type)
- Enhanced SMART 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
- Advanced remote diagnostics and network monitoring capabilities available over Ethernet

Your benefits

- Intelligent auto setup and multi-function pushbuttons save time during commissioning
- Easily execute firmware updates using the microSD memory card: no need for a PC
- Enhanced SMART technology reads damaged and partially obscured codes, increasing read rates
- Increased scanner intelligence enables sophisticated configuration of logical operations, reducing the control system programming effort. Data is then delivered in the desired format
- Real-time code identification even at very high conveyor speeds
- Increased scanning reliability due to high-performance computing power and high scanning frequency

Fields of application

- Warehouse conveyor technology: picking station, identification of secondary packaging, pallet foot identification
- Consumer goods industry: serialization and package content monitoring
- Aggregation of food and pharmaceutical packaging
- Food and beverage: identification in washdown zones

Ordering information

Other models and accessories → www.sick.com/CLV63x

- **Optical focus:** Fixed focus

Connection type	Reading field	Scanning method	Enclosure rating	Front screen	Heating	Type	Part no.
Ethernet	Oscillating mirror	Line scanning	IP65	Glass	✓	CLV630-6120F0	1051864
						CLV631-6120F0	1065606
					-	CLV630-6120	1041977
						CLV631-6120	1041987
					CLV632-6120	1041997	
				Plastic	-	CLV630-6121	1047279
						CLV630-6121S01	1066154
				Ethernet	Oscillating mirror	Line scanning	IP65
	CLV632-6121	1046368					
IP69K	Plastic	-	CLV631-6831S01				1062136
Front	Line scanning	IP65	Glass				✓
						CLV631-0120F0	1051861
					-	CLV630-0120	1041969
						CLV631-0120	1041979
	CLV632-0120	1041989					
Plastic	-	CLV630-0121	1047278				
		CLV630-0121S01	1048440				

Connection type	Reading field	Scanning method	Enclosure rating	Front screen	Heating	Type	Part no.						
						CLV632-0121	1047280						
			IP69K	Plastic	-	CLV630-0831S01	1068600						
						CLV631-0831S01	1062070						
		Raster scanning	IP65	Glass			✓	CLV630-1120F0	1061765				
								CLV632-1120F0	1059813				
							-	CLV630-1120	1041971				
								CLV631-1120	1041981				
								CLV632-1120	1041991				
							Plastic				-	CLV630-1121	1046959
												CLV630-1121S01	1048439
							CLV632-1121	1047281					
					IP69K	Plastic	-	CLV632-1831S01	1062530				
		Side (105°)	Line scanning	IP65	Glass		-	CLV630-2120	1041973				
	CLV631-2120							1041983					
	IP65							Glass	-	CLV632-2120	1041993		
										Plastic	-	CLV632-2831	1060304
	Raster scanning		IP65	Glass		-	CLV630-3120	1041975					
							CLV631-3120	1041985					
							CLV632-3120	1041995					
							Plastic	-	CLV632-3121	1077806			
Cable	Oscillating mirror	Line scanning	IP65	Glass	✓	CLV630-6000F0	1053927						
					-	CLV630-6000	1041976						
						CLV631-6000	1041986						
						CLV632-6000	1041996						

Connection type	Reading field	Scanning method	Enclosure rating	Front screen	Heating	Type	Part no.
	Front	Line scanning	IP65	Plastic	-	CLV630-6001S01	1049008
				Glass	✓	CLV630-0000F0	1051733
					-	CLV631-0000F0	1050778
					-	CLV630-0000	1040706
					-	CLV631-0000	1041978
					-	CLV632-0000	1041988
				Plastic	-	CLV630-0001S01	1049006
				Glass	-	CLV630-1000	1041970
					-	CLV631-1000	1041980
					-	CLV632-1000	1041990
	-	CLV630-1001	1046493				
	-	CLV630-1001S01	1049007				
	Side (105°)	Line scanning	IP65	Glass	✓	CLV632-2000F0	1059976
					-	CLV630-2000	1041972
					-	CLV631-2000	1041982
					-	CLV632-2000	1041992
					✓	CLV632-3000F0	1056858
		Raster scanning			-	CLV630-3000	1041974
					-	CLV631-3000	1041984
					-	CLV632-3000	1041994

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