

CLV640-0120

CLV64x

**FIXED MOUNT BARCODE SCANNERS** 





## Ordering information

Туре	part no.
CLV640-0120	1042015

Other models and accessories → www.sick.com/CLV64x



#### Detailed technical data

#### **Features**

Version	Standard Density
Connection type	Ethernet
Reading field	Front
Sensor type	Line scanner
Optical focus	Dynamic focus control
Light source	Light spot, laser, Visible, Red, 655 nm
Light spot	Circular
Laser class	2, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 56" from May 8, 2019 (EN 60825-1:2014+A11:2021, IEC 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	60 mm 840 mm <sup>1)</sup>
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.2 mm 1 mm

<sup>&</sup>lt;sup>1)</sup> For details see reading field diagram.

# Mechanics/electronics

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Connection type	$2\ x\ M12$ cylindrical connectors (12-pin male connector, 4-pin female connector) on swivel connector
Supply voltage	18 V DC 30 V DC
Power consumption	5.5 W
Housing material	Aluminum die cast

 $<sup>^{1)}</sup>$  Swivel connector is 15 mm longer.

<sup>&</sup>lt;sup>2)</sup> At 25 °C.

Housing color	Light blue (RAL 5012)
Window material	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	250 g, without connecting cable
Dimensions (L x W x H)	61 mm x 96 mm x 38 mm <sup>1)</sup>
MTBF	100,000 h
MTTF	40,000 h (Laser diode) <sup>2)</sup>

 $<sup>^{1)}</sup>$  Swivel connector is 15 mm longer.

## Performance

Readable code structures	1D codes
Bar code types	All current code types, Code 39, Code 128, Code 93, Codabar, GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode, GS1 DataBar, Telepen, MSI/Plessey
Code printing process	Label (printed codes)
Print ratio	2:1 3:1
No. of codes per scan	1 20 (Standard decoder) 1 6 (SMART decoder)
No. of codes per reading interval	1 50 (auto-discriminating)
No. of characters per reading interval	5,000 500 (for multiplexer function in CAN operation)
No. of multiple readings	1 99

#### Interfaces

Ethernet		✓, TCP/IP
	Function	Data interface (read result output), Service interface
Data tra	ansmission rate	10/100 MBit/s
PROFINET		✓
	Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data tr	ansmission rate	10/100 MBit/s
EtherNet/IP™		<b>√</b>
Data tra	ansmission rate	10/100 MBit/s
EtherCAT <sup>®</sup>		✓
Type of field	dbus integration	Optional over external fieldbus module CDF600
Serial		✓ , RS-232, RS-422, RS-485
	Function	Data interface (read result output), Service interface
Data tra	ansmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN		<b>√</b>
	Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
Data tra	ansmission rate	20 kbit/s 1 Mbit/s
CANopen		<b>√</b>
Data tr	ansmission rate	20 kbit/s 1 Mbit/s
PROFIBUS DP		✓

<sup>&</sup>lt;sup>2)</sup> At 25 °C.

	Type of fieldbus integration	Optional over external fieldbus module CDF600-2	
Digital inputs		3 ("Sensor 1", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)	
Digital outputs		2 (Via optional CMC600 parameter memory in CDB620/CDM420)	
Reading pulse		Digital inputs, non-powered, serial interface, auto pulse, CAN	
Optical indicators		6 LEDs (Ready, Result, laser, Data, CAN, LNK TX, Bar graph for displaying the reading rate percentage (10 LEDs))	
Acoustic indicator	s	Beeper/buzzer (can be switched off, can be allocated as a result indication function)	
Control elements		2 buttons (choose and start/stop functions)	
Configuration soft	ware	SOPAS ET	
Memory card		MicroSD memory card (flash card), optional	

#### Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on barcode
Bar code print contrast (PCS)	≥ 60 %

## Certificates

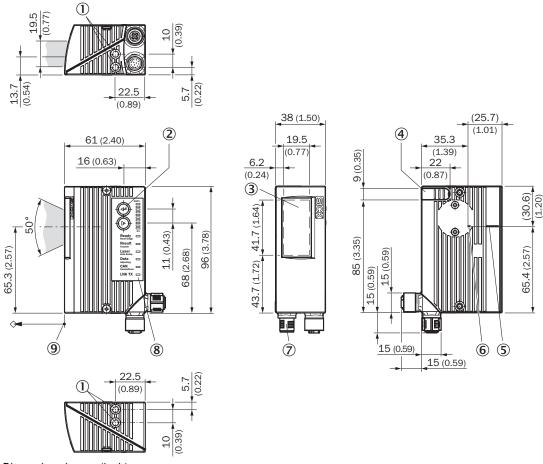
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Ethercat certificate	✓
Profinet certificate	✓
Laser safety (IEC 60825-1) declaration of manufacturer	<b>✓</b>
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	<b>✓</b>
4Dpro	✓

# Classifications

ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102

ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

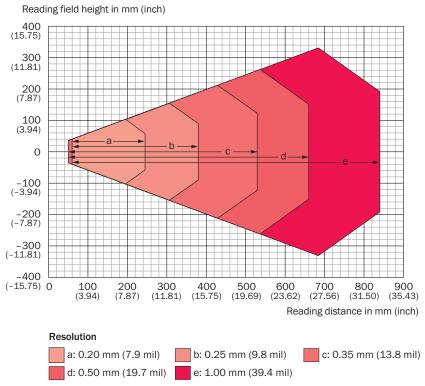
#### Dimensional drawing CLV63x/64x/65x, JEF3xx, JEF5xx, Ethernet, front



Dimensions in mm (inch)

- 1) blind hole thread M5, 5 mm deep (2 x), for mounting
- ② Function button (2 x)
- 3 Reading field
- $\ensuremath{\textcircled{4}}$  cover for the microSD memory card
- ⑤ central position of the deflected laser beam in the V-shaped aperture angle
- (6) internal impact point: rotation point of the variable direction laser beam
- 7 M12 round connectors (1 x 12-pin or 1 x 17-pin male connector, A-coded, 1 x 4-pin female connector, D-coded) with swivel connector
- ® LED status indicator (6x) and bar graph
- (9) reference point for reading distance (from housing edge to object)

## Reading field diagram



The depth of field is reduced by approx. 10% for devices with plastic lenses.

#### Recommended accessories

Other models and accessories → www.sick.com/CLV64x

	Brief description	Туре	part no.		
integration me	integration modules and adapters				
Tal III C	Description: External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259		
Mounting syst	tems				
	Description: Hanger-shaped mounting bracket     Items supplied: Mounting hardware included	Mounting bracket	2042800		
Storage media					
	Description: microSD memory card with 1 GB for industrial use	microSD memory card	4051366		
Junction boxes					
		CDB620-001	1042256		

# FIXED MOUNT BARCODE SCANNERS

	Brief description	Туре	part no.
connectors and cables			
88	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shielded, PROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-020P- N1MRJA4	2106182

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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."

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