

CLV632-1120F0 CLV63x

FIXED MOUNT BARCODE SCANNERS





Ordering information

Туре	Part no.
CLV632-1120F0	1059813

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



Detailed technical data

Features

Version	Short Range
Connection type	Ethernet
Reading field	Front
Sensor type	Raster scanner
Optical focus	Fixed focus
Light source	Light spot, laser, Visible, Red, 655 nm
Light spot	Circular
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	60 mm 285 mm ¹⁾
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.2 mm 0.5 mm
Raster height, number of lines, at distance	15 mm, 8, 200 mm
Heating	√
Cold storage applications	√

 $^{^{1)}}$ For details see reading field diagram.

Mechanics/electronics

Connection type	$2 \times M12$ cylindrical connectors (12-pin male connector, 4-pin female connector) on swivel connector $1 \times C$ cable, open-ended, 3-wire (2 m)
Supply voltage	≤ 24 V DC, ± 10 %
Power consumption	40 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)

 $^{^{1)}}$ Swivel connector is 15 mm longer.

²⁾ At 25 °C.

Window material	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	450 g, without connecting cable
Dimensions (L x W x H)	61 mm x 96 mm x 50 mm ¹⁾
MTBF	100,000 h
MTTF	40,000 h (Laser diode) ²⁾

 $^{^{1)}}$ Swivel connector is 15 mm longer.

Performance

Readable code structures	1D codes
Bar code types	All current code types
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	199

Interfaces

Ethernet	✓, TCP/IP, RS-232, RS-422, RS-485	
Type of fieldbus integration	Optional over external fieldbus module CDF600 Optional over external fieldbus module CDF600-2	
Function	Data interface (read result output), Service interface PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2) Data interface (read result output), Service interface SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)	
Data transmission rate	10/100 MBit/s 10/100 MBit/s 10/100 MBit/s 2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232) 20 kbit/s 1 Mbit/s 20 kbit/s 1 Mbit/s	
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	
Optical indicators	6 LEDs (Ready, Result, laser, Data, CAN, LNK TX, Bar graph for displaying the reading rate percentage (10 LEDs))	
Acoustic indicators	Beeper/buzzer (can be switched off, can be allocated as a result indication function)	
Control elements	2 buttons (choose and start/stop functions)	
Configuration software	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
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²⁾ At 25 °C.

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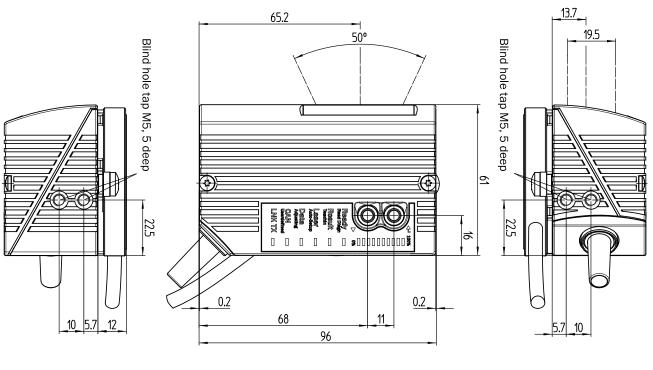
FIXED MOUNT BARCODE SCANNERS

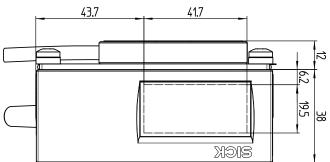
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	-35 °C +35 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on barcode
Bar code print contrast (PCS)	≥ 60 %

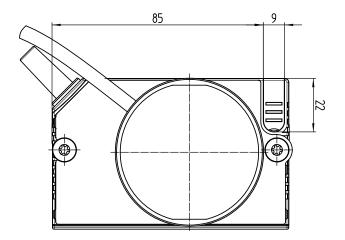
Classifications

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 (Dimensions in mm (inch))



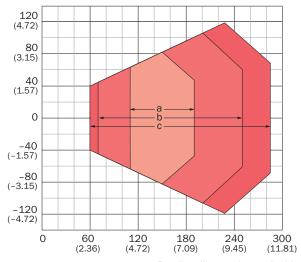




nm	inch
0.2	0.008
5	0.19
5.7	0.23
3.2	0.24
9	0.35
10	0.39
11	0.43
12	0.47
13.7	0.54
16	0.63
19.5	0.77
22	0.87
22.5	0.89
38	1.50
11.7	1.64
13.7	1.72
31	2.40
35.2	2.57
86	2.68
35	3.35
96	3.78

Reading field diagram

Reading field height in mm (inch)



Reading distance in mm (inch)

For devices with plastic reading window, the depth of field is reduced by approx. 10 %.

Resolution



b: 0.35 mm (13.8 mil)

c: 0.50 mm (19.7 mil)

Recommended accessories

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

	Brief description	Туре	Part no.
Cloning modules			
SEX CONTROL OF THE PROPERTY OF	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Electronic modules			
	Additional board for connecting a bar code scanner with heater in combination with CDM-420	Additional board	2055071
Storage media			
11/8	microSD memory card with 1 GB for industrial use	microSD memory card	4051366
Mounting brackets and plates			
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705

	Brief description	Туре	Part no.	
Plug connecto	Plug connectors and cables			
	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 2 m, 4-wire, AWG26 Description: Ethernet, shielded 	YM2D24- 020EB2MRJA4	6050198	
Modules				
(III)	 Sub product family: CDB620 Supported products: CLV61x - CLV65x, Lector62x, RFH6xx, RFU62x Brief description: Small connection module for one sensor, 4 cable glands, base for CMC600 	CDB620-001	1042256	
la de	Sub product family: CDM420 Fieldbus interface: PR0FIBUS DP, Ethernet, DeviceNet™ Supported products: Lector62x, CLV61x - CLV65x, Mobile handheld scanners, RFH6xx, RFU62x, RFU63x Brief description: Modular connection module for one sensor	CDM420-0001	1025362	

Recommended services

Additional services → www.sick.com/CLV63x

	Туре	Part no.
Performance check		
 Product area: Fixed mount barcode scanners Range of services: Inspection of defined functions, e.g., reading performance Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Performance check CLV4xx/CLV6xx	1682028
Commissioning		
 Product area: Fixed mount barcode scanners Range of services: Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as tests, Setup of previously defined functions of reading configuration, code configuration, data processing and network, interfaces or inputs and outputs Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning CLV61x CLV64x	1681925
Extended warranty		
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

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