

CLV630-1120F0 CLV63x

FIXED MOUNT BARCODE SCANNERS





Ordering information

Туре	part no.
CLV630-1120F0	1061765

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



Detailed technical data

Features

Version	Long 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, 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 735 mm ¹⁾
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.35 mm 1 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 material	Aluminum die cast
Housing color	Light blue (RAL 5012)
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. $^{2)}$ At 25 $^{\circ}\text{C}.$

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	199

Interfaces

Ethernet	✓, TCP/IP
Function	Data interface (read result output), Service interface
Data transmission rate	e 10/100 MBit/s
PROFINET	✓
Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmission rate	e 10/100 MBit/s
EtherNet/IP™	1
Data transmission rate	e 10/100 MBit/s
EtherCAT [®]	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial	✓ , RS-232, RS-422, RS-485
Function	Data interface (read result output), Service interface
Data transmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)

CAN	√	
Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)	
Data transmission rate	20 kbit/s 1 Mbit/s	
CANopen	✓	
Data transmission rate	20 kbit/s 1 Mbit/s	
PROFIBUS DP	✓	
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 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
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 %

Certificates

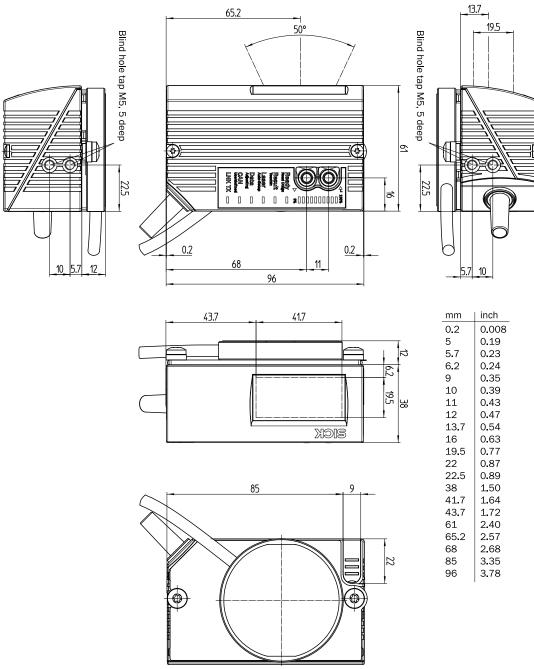
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
Ethercat certificate	✓
Profinet certificate	✓
Laser safety (IEC 60825-1) declaration of manufacturer	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)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

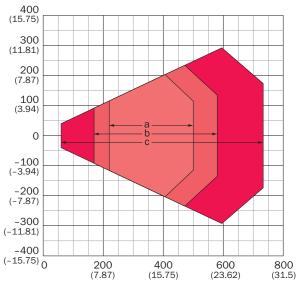
Dimensional drawing



Dimensions in mm (inch)

Reading field diagram





Reading distance in mm (inch)

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

Resolution



b: 0.50 mm (19.7 mil)

Recommended accessories

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

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	Brief description	Туре	part no.
Junction boxes			
		CDB620-001	1042256
		CDM420-0001	1025362
Mounting syst	ems		
	Description: Hanger-shaped mounting bracket, thermally isolated for use with heating devices Items supplied: Mounting hardware included	Mounting bracket	2050705
connectors and cables			
1	 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, PROFINET Cable: 2 m, 4-wire, AWG26, PVC Description: Ethernet, shielded, PROFINET 	YM2D24-020E- B2MRJA4	6050198

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FIXED MOUNT BARCODE SCANNERS

	Brief description	Туре	part no.	
device protect	device protection and care			
	 Product family: Heating devices Description: Additional board for connecting a bar code scanner with heater in combination with CDM-420 	Additional board	2055071	
integration mo	integration modules and adapters			
The state of the s	Description: External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259	
Storage media				
	Description: microSD memory card with 1 GB for industrial use	microSD memory card	4051366	

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