

CLV620-0120 CLV62x

FIXED MOUNT BARCODE SCANNERS

SICKSensor Intelligence.



Ordering information

Туре	Part no.
CLV620-0120	1041547

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



Detailed technical data

Features

Version	Mid Range
Connection type	Ethernet
Reading field	Front
Sensor type	Line scanner
Optical focus	Fixed focus
Light source	Light spot, laser, Visible, Red, 655 nm
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 365 mm ¹⁾
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.2 mm 1 mm

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

Mechanics/electronics

Connection type	2xM12 cylindrical connectors (12-pin male connector, 4-pin female connector) on swivel connector
Supply voltage	10 V DC 30 V DC
Power consumption	4.5 W
Housing material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Glass
Enclosure rating	IP65 (DIN 40 050)
Protection class	III (VDE 0106/IEC 1010-1)
Weight	205 g, without connecting cable

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

²⁾ At 25 °C.

Dimensions (L x W x H)	61 mm x 66 mm x 38 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 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 (SMART620)
No. of codes per reading interval	1 50 (auto-discriminating)
No. of characters per reading interval	1,500 500 (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	10/100 MBit/s
PROFINET		√
	Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
	Data transmission rate	10/100 MBit/s
EtherNet/IP™		✓
	Data transmission rate	10/100 MBit/s
EtherCAT		1
	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)

²⁾ At 25 °C.

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Acoustic indicators	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Configuration software	SOPAS ET

Ambient data

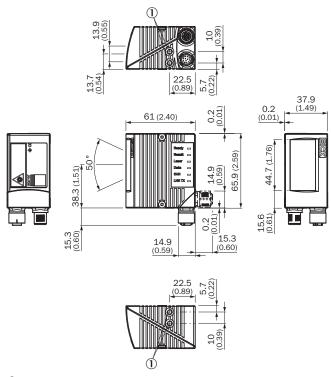
Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity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

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

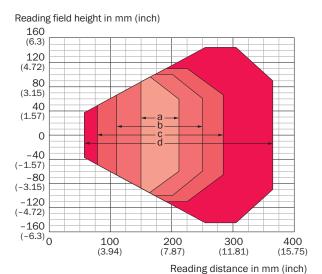
Dimensional drawing (Dimensions in mm (inch))

CLV62x Ethernet, front



① M5

Reading field diagram



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



Recommended accessories

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

	Brief description	Туре	Part no.
Cloning modules			
M 1 sex S	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Modules			
	 Accessory group: 4DproConnectivity Product family: Connection Device Basic Sub product family: CDB620 Supported products: CLV61x - CLV65xLector62xRFH6xxRFU62x Brief description: Small connection module for one sensor, 4 cable glands, base for CMC600 	CDB620-001	1042256
Mounting bra	ckets and plates		
	Bracket with adapter board	Mounting bracket	2042902
88	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 2 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 020PN1MRJA4	2106182
99	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, M12, 4-pin, straight, D-coded Signal type: Ethernet, PROFINET Cable: 3 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 030PN1M2D24	2113266
8 8	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, M12, 4-pin, straight, D-coded Signal type: Ethernet, PROFINET Cable: 2 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 020PN1M2D24	2106159
99	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, M12, 4-pin, straight, D-coded Signal type: Ethernet, PROFINET Cable: 5 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 050PN1M2D24	2106160
9 9	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, M12, 4-pin, straight, D-coded Signal type: Ethernet, PROFINET Cable: 10 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 100PN1M2D24	2106161

Recommended services

Additional services → www.sick.com/CLV62x

	Туре	Part no.
Performance check		
 Product area: Fixed mount barcode scanners Range of services: Inspection of defined functions, e.g., reading performance Duration: Additional work will be invoiced separately 	Performance check CLV	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 Duration: Additional work will be invoiced separately 	Commissioning CLV61x CLV64x	1681925
Extended warranty		
 Product area: Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners 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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