



CLV620-0120

CLV62x

FIXED MOUNT BARCODE SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	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	2 x M12 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

¹⁾ Swivel connector is 15 mm longer.

²⁾ At 25 °C.

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
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.

²⁾ At 25 °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 (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	1 ... 99

Interfaces

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

Certificates

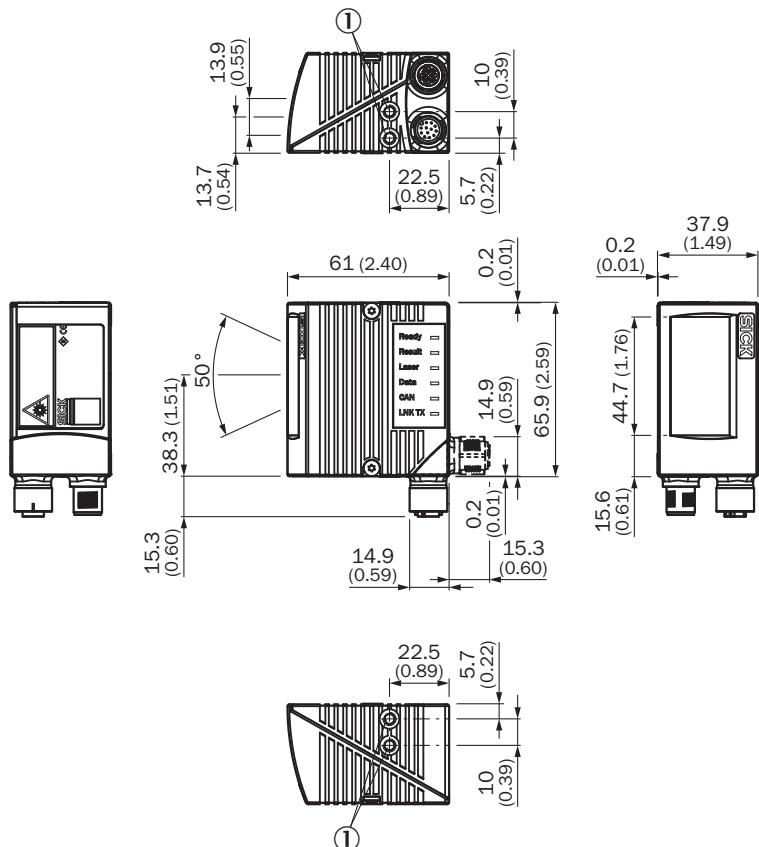
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
Ethercat certificate	✓
Profinet certificate	✓
BIS registration	✓
Laser safety (IEC 60825-1) declaration of manufacturer	✓
Information according to Art. 3 of Data Act (Regulation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

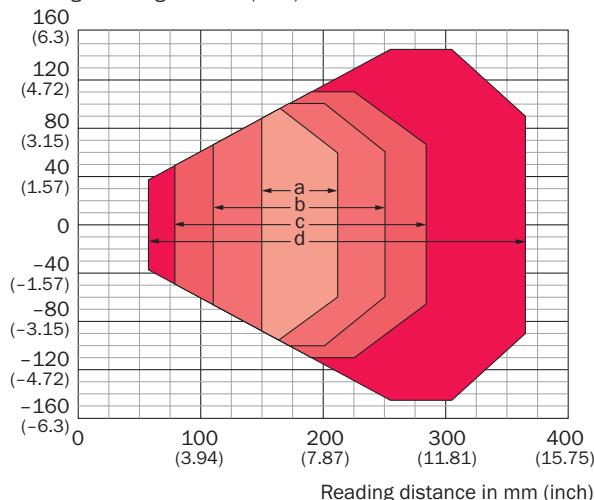
Dimensional drawing CLV62x Ethernet, front



Dimensions in mm (inch)
 ① M5

Reading field diagram

Reading field height in mm (inch)



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

Resolution

	a: 0.2 mm (7.9 mil)		b: 0.35 mm (13.8 mil)
	c: 0.50 mm (19.7 mil)		d: 1.00 mm (39.4 mil)

Recommended accessories

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

	Brief description	Type	part no.
integration modules and adapters			
	• Description: External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Mounting systems			
	• Description: Bracket with adapter board	Mounting bracket	2042902
Junction boxes			
		CDB620-001	1042256

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> 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, shielded, PROFINET Application: Drag chain operation, Zones with oils and lubricants 	YM2D24-020P-N1MRJA4	2106182
	<ul style="list-style-type: none"> 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, shielded, PROFINET Application: Drag chain operation, Zones with oils and lubricants 	YM2D24-030P-N1M2D24	2113266
	<ul style="list-style-type: none"> 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, shielded, PROFINET Application: Drag chain operation, Zones with oils and lubricants 	YM2D24-020P-N1M2D24	2106159
	<ul style="list-style-type: none"> 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, shielded, PROFINET Application: Drag chain operation, Zones with oils and lubricants 	YM2D24-050P-N1M2D24	2106160
	<ul style="list-style-type: none"> 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, shielded, PROFINET Application: Drag chain operation, Zones with oils and lubricants 	YM2D24-100P-N1M2D24	2106161

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:

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