CLV620-0000

CLV62x

FIXED MOUNT BAR CODE SCANNERS

SICK
Sensor Intelligence.

CLV620-0000 | CLV62x

FIXED MOUNT BAR CODE SCANNERS

Ordering information

Type	Part no.
CLV620-0000	1040288

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

Detailed technical data

Features

Version	Mid Range
Connection type	Cable
Reading field	Front
Scanner design	Line scanner
Focus	Fixed focus
Light source	Visible red light (655 nm)
Laser class	2 (IEC 60825-1:2014) EN 60825-1:2014
Aperture angle	≤ 50°
Scanning frequency	400 Hz ... 1,200 Hz
Code resolution	0.2 mm ... 1 mm
Reading distance	60 mm ... 365 mm [1]

[1] For details see reading field diagram.

Mechanics/electronics

Electrical connection	1 x 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	10 V DC ... 30 V DC
Power consumption	4.5 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Front screen	Glass
Enclosure rating	IP65 (DIN 40 050)
Protection class	III (VDE 0106/IEC 1010-1)
Weight	225 g, with connecting cable
Dimensions (L x W x H)	61 mm x 66 mm x 38 mm

MTBF	40,000 h

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
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

PROFINET		✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
	Function	PROFINET Single Port, PROFINET Dual Port
EtherCAT®		✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial		✓, RS-232, RS-422, RS-485
	Function	Host, AUX
	Data transmission rate	2,400 Baud … 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN		✓
	Function	SICK CAN sensor network CSN (master/slave, 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
DeviceNet™		✓
	Type of fieldbus integration	Optional, over external connection module CDM + CMF
Digital inputs		4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Digital outputs		4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 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

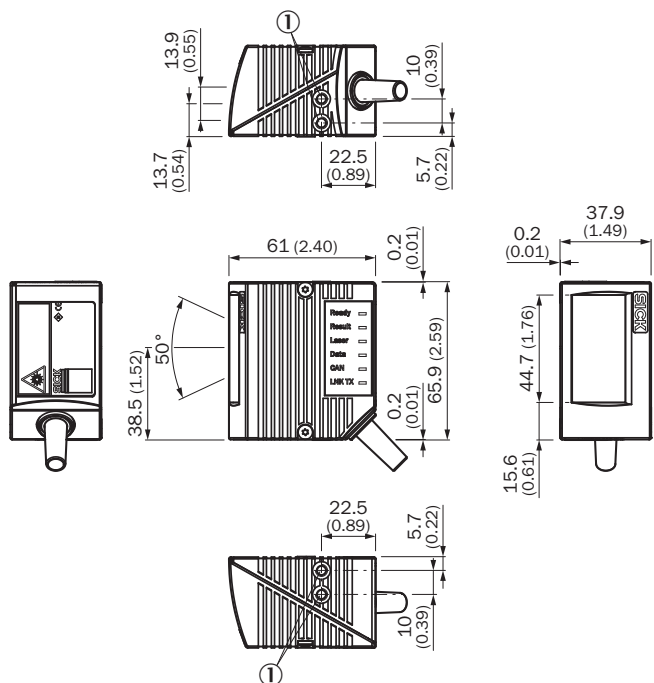|	
Vibration resistance	EN 60068-2-6 (1995)
Ambient operating temperature	0 °C … +40 °C
Storage temperature	−20 °C … +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on bar code
Bar code print contrast (PCS)	≥ 60 %

General notes

Note on use	For Ethernet connection please use an Ethernet version of CLV6xx

Classifications

ECl@ss 5.0	27280102
ECl@ss 5.1.4	27280102
ECl@ss 6.0	27280102
ECl@ss 6.2	27280102
ECl@ss 7.0	27280102
ECl@ss 8.0	27280102
ECl@ss 8.1	27280102
ECl@ss 9.0	27280102
ECl@ss 10.0	27280102
ECl@ss 11.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
UNSPSC 16.0901	43211701

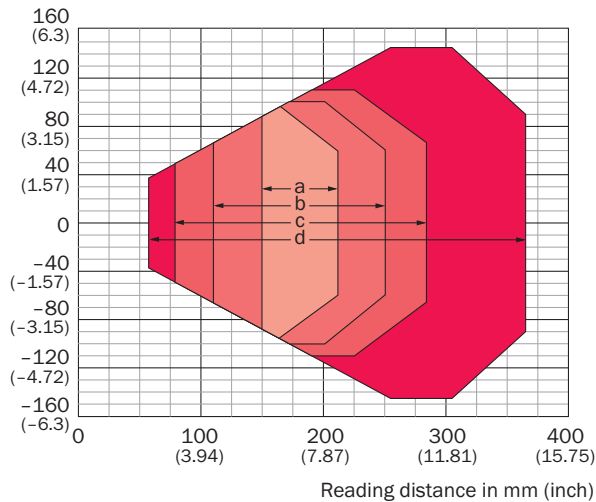## Dimensional drawing (Dimensions in mm (inch))

CLV62x Standard, front

① M5

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

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.
Mounting brackets and plates		
Bracket with adapter board	Mounting bracket	2042902
Modules and gateways		
External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Modules		
Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256

Recommended services

Additional services ➜ www.sick.com/CLV62x

	Type	Part no.
Warranty extensions		
• **Product area:** Identification solutions, machine vision, Distance sensors, Detection and ranging solutions • **Range of services:** The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase), Long-term protection for calculable lump sum. • **Duration:** Five-year warranty from date of purchase.	Five-year extended warranty	1680671
Performance check		
• **Product area:** Bar code scanners • **Range of services:** Inspection of defined functions, e.g., reading performance • **Documentation:** Documentation of reading performance, Creation of a performance check log • **Duration:** Additional work will be invoiced separately • **Note:** The prices do not include expenses or costs for the travel time	Performance check CLV4xx/CLV6xx	1682028
Commissioning		
• **Product area:** Bar code scanners • **Range of services:** Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as verification tests, Setup of previously defined functions of reading configuration, code configuration, data processing and network, interfaces or inputs and outputs • **Documentation:** Archiving of product parameters in a SICK database, Documentation of reading performance, Creation of a commissioning log • **Duration:** Additional work will be invoiced separately • **Note:** The prices do not include expenses or costs for the travel time	Commissioning CLV61x … CLV64x	1681925

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."

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