

CLV610-C3000 CLV61x

FIXED MOUNT BARCODE SCANNERS





Ordering information

Туре	Part no.
CLV610-C3000	1071609

Other models and accessories → www.sick.com/CLV61x



Detailed technical data

Features

Task	Identifying - 1D code
Version	Mid Range
Connection type	Cable
Reading field	Side (105°)
Sensor type	Raster scanner
Optical focus	Fixed focus
Light source	Light spot, laser, Visible, Red, 655 nm
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	45 mm 345 mm ¹⁾
Scanning frequency	400 Hz 1,000 Hz
Code resolution	0.2 mm 1 mm
Raster height, number of lines, at distance	15 mm, 8, 185 mm

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

Mechanics/electronics

Connection type	1 x 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	10 V DC 30 V DC
Power consumption	2.8 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)

¹⁾ At 25 °C.

Window material	Glass
Enclosure rating	IP65 (DIN 40 050)
Protection class	III (VDE 0106/IEC 1010-1)
Weight	295 g, with connecting cable
Dimensions (L x W x H)	80 mm x 66 mm x 38 mm
MTBF	100,000 h
MTTF	40,000 h (Laser diode) ¹⁾

¹⁾ At 25 °C.

Performance

Readable code structures	1D codes
Bar code types	All current code types, Code 39, Code 128, Code 93, Codabar, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode
Code printing process	Label (printed codes)
Print ratio	2:1 3:1
No. of codes per scan	1 10 (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

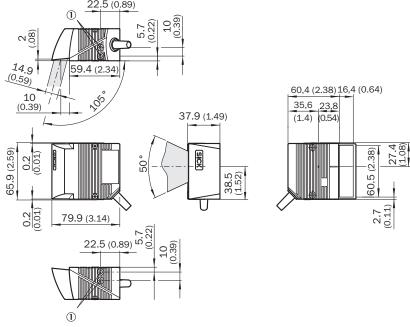
Serial	√ , RS-232
Function	Data interface (read result output), Service interface
Data transmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud
CAN	✓
Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
Data transmission rate	20 kbit/s 1 Mbit/s
Digital inputs	4 ("Sensor 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	1 RGB LED (multifunctional)
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 61000-6-4 (2007-01) + A1 (2011) / EN 61000-6-2:2005-08
Vibration resistance	EN 60068-2-6:2008-02
Shock resistance	EN 60068-2-27:2009-05
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

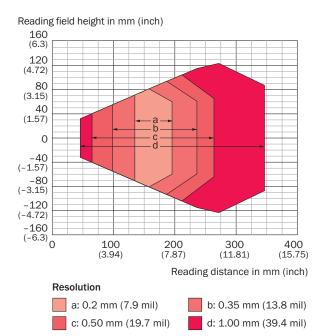
Bar code print contrast (PCS)	≥ 60 %
General notes	
Items supplied	Single scanner
Classifications	
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
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))



① Blind hole thread M5, 5 mm deep (2 x), for mounting

Reading field diagram



Recommended accessories

Other models and accessories → www.sick.com/CLV61x

	Brief description	Туре	Part no.
Cloning modu	les		
M 1 max (f	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Mounting brackets and plates			
	Bracket with adapter board	Mounting bracket	2042902
Modules			
	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

Recommended services

Additional services → www.sick.com/CLV61x

	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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