

CLV610-C1900S01

CLV61x

FIXED MOUNT BAR CODE SCANNERS





Ordering information

Туре	Part no.
CLV610-C1900S01	1062864

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



Detailed technical data

Features

Version	Mid Range
Connection type	Cable
Reading field	Front
Scanner design	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°
Scanning frequency	400 Hz 1,000 Hz
Code resolution	0.2 mm 1 mm
Reading distance	60 mm 365 mm ¹⁾
Raster height, number of lines, at distance	15 mm, 8, 200 mm

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

Mechanics/electronics

Electrical connection	1 x 15-pin D-Sub HD male connector (0.26 m)
Supply voltage	10 V DC 30 V DC
Power consumption	2.8 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	265 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, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode
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	199

Interfaces

Serial	√ , RS-232
Function	Host, AUX
Data transmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud
CAN	√
Function	SICK CAN sensor network CSN (master/slave, 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
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

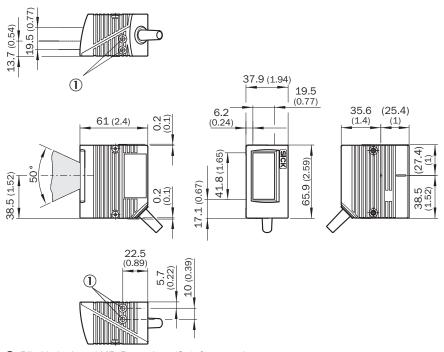
Items supplied	Single scanner

Classifications

ECI@ss 5.0	27280102
ECI@ss 5.1.4	27280102
ECI@ss 6.0	27280102

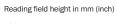
Dimensional drawing (Dimensions in mm (inch))

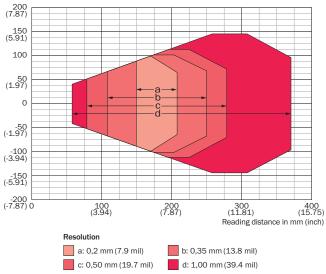
CLV61x Standard, front



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.	
Mounting brad	Mounting brackets and plates			
	Bracket with adapter board	Mounting bracket	2042902	
Modules and a	Modules and gateways			
Sec. ()	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/CLV61x

	Туре	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) Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671
Performance check		
 Product area: Fixed mount bar code scanners Range of services: Inspection of defined functions, e.g., reading performance Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Performance check CLV4xx/CLV6xx	1682028
Product, system and software training		
 Range of services: SICK offers training courses for numerous target groups ranging from basic to expert levels, Training format and location can be worked out in collaboration with SICK Duration: The fixed price includes the specific training services agreed upon, the fixed price includes the work time required for the training services and depends on the range of services, Additional work will be invoiced separately 	Training for the CLV6 series	1612231
Commissioning		
 Product area: Fixed mount 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 Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning CLV61x CLV64x	1681925

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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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