

CLV632-0121

CLV63x

FIXED MOUNT BAR CODE SCANNERS





Ordering information

Туре	Part no.
CLV632-0121	1047280

Other models and accessories → www.sick.com/CLV63x



Detailed technical data

Features

Version	Short Range
Connection type	Ethernet
Reading field	Front
Scanning method	Line scanner
Optical focus	Fixed focus
Light source	
Light spot	Laser, Visible, Red, 655 nm
Light spot	Circular
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 0.5 mm
Reading distance	60 mm 285 mm ¹⁾

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

Mechanics/electronics

Connection type	$2\mathrm{x}\mathrm{M}12$ cylindrical connectors (12-pin male connector, 4-pin female connector) on swivel connector
Supply voltage	18 V DC 30 V DC
Power consumption	5 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Front screen	Plastic
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	250 g, without connecting cable

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

Dimensions (L x W x H)	61 mm x 96 mm x 38 mm ¹⁾
MTBF	100,000 h

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
Print ratio	2:1 3:1
No. of codes per scan	1 20 (Standard decoder) 1 6 (SMART decoder)
No. of codes per reading interval	1 50 (auto-discriminating)
No. of characters per reading interval	5,000 500 (for multiplexer function in CAN operation)
No. of multiple readings	199

Interfaces

Function	menaces		
Data transmission rate Function Function PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2) Data transmission rate EtherNet/IPTM Data transmission rate Data transmission rate 10/100 MBit/s EtherCAT Type of fieldbus integration Optional over external fieldbus module CDF600 Serial Function Data transmission rate 2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232) CAN Function 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 DeviceNet** Type of fieldbus integration Digital inputs 3 ("Sensor 1", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Digital outputs Reading pulse Optical indicators 6 LEDs (Ready) , Result	Ethernet		√ , TCP/IP
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Type of fieldbus integration 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		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	DeviceNet™		✓
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		Type of fieldbus integration	Optional, over external connection module CDM + CMF
Reading pulse Digital inputs, non-powered, serial interface, auto pulse, CAN Optical indicators 6 LEDs (Ready) , Result	Digital inputs		3 ("Sensor 1", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Optical indicators 6 LEDs (Ready) , Result	Digital outputs		2 (Via optional CMC600 parameter memory in CDB620/CDM420)
, Result	Reading pulse		Digital inputs, non-powered, serial interface, auto pulse, CAN
	Optical indicators		, Result

	, Data , CAN , LNK TX , Bar graph for displaying the reading rate percentage (10 LEDs)
Acoustic indicators	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Control elements	2 buttons (choose and start/stop functions)
Configuration software	SOPAS ET
Memory card	MicroSD memory card (flash card), optional

Ambient data

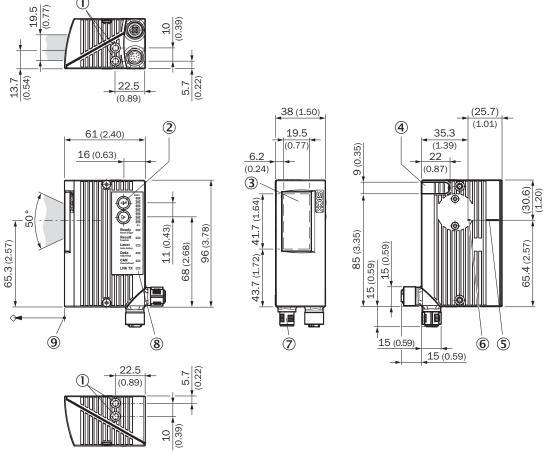
Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on bar code
Bar code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

Classifications

ECI@ss 5.0	27280102
ECI@ss 5.1.4	27280102
ECI@ss 6.0	27280102
ECI@ss 6.2	27280102
ECI@ss 7.0	27280102
ECI@ss 8.0	27280102
ECI@ss 8.1	27280102
ECI@ss 9.0	27280102
ECI@ss 10.0	27280102
ECI@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))

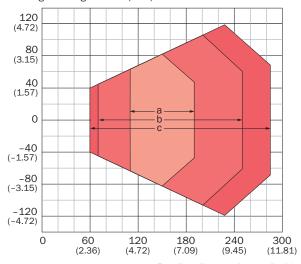
CLV63x/64x/65x, JEF3xx, JEF5xx, Ethernet, front



- ① Blind hole thread M5, 5 mm deep (2 x), for mounting
- ② Function button (2 x)
- ③ Reading field
- Cover for the microSD memory card
- ⑤ Central position of the deflected laser beam in the V-shaped aperture angle
- ⑥ Internal impact point: rotation point of the variable direction laser beam
- ① M12 round connectors (1 x 12-pin or 1 x 17-pin male connector, A-coded, 1 x 4-pin female connector, D-coded) with swivel connector
- 8 LED status indicator (6x) and bar graph
- Reference point for reading distance (from housing edge to object)

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



b: 0.35 mm (13.8 mil)

c: 0.50 mm (19.7 mil)

Recommended accessories

Other models and accessories → www.sick.com/CLV63x

	Brief description	Туре	Part no.		
Mounting bra	Mounting brackets and plates				
	Hanger-shaped mounting bracket, mounting hardware included	Mounting bracket	2042800		
Cloning modu	le				
Sec. (5	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259		
Modules					
TI, I.o.	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256		
Storage media					
	microSD memory card with 1 GB for industrial use	microSD memory card	4051366		

	Brief description	Туре	Part no.
Plug connectors and cables			
	Head A: female connector, M12, 12-pin, straight Head B: male connector, D-Sub-HD, 15-pin, straight Cable: Power, serial, CAN, digital I/Os, shielded, 2 m	YF2Z1B- 020XXXMHDAC	2041834
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, twisted pair, PUR, halogen-free, shielded, 2 m	YM2D24- 020EA1MRJA4	6034414

Recommended services

Additional services → www.sick.com/CLV63x

	Туре	Part no.
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 	Training for the CLV6 series	1612231
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
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 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

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:

Contacts and other locations -www.sick.com

