



CLV630-6001S01

CLV63x

FIXED MOUNT BAR CODE SCANNERS





Ordering information

Туре	Part no.
CLV630-6001S01	1049008

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



Detailed technical data

Features

i catules	
Version	Long Range
Connection type	Cable
Reading field	Oscillating mirror
Scanning method	Line scanner
Optical focus	Fixed focus
Light source	
Light spot	Laser, Visible, Red, 655 nm
Light spot	Oval
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 50°
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.35 mm 1 mm
Reading distance	45 mm 659 mm ¹⁾
Oscillating mirror functions	Fixed (adjustable position), oscillating (variable or fixed amplitude), one shot
Oscillation frequency	0.5 Hz 6.25 Hz
Angle of deflection	-20° 20°

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

Mechanics/electronics

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Connection type	1 x 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	18 V DC 30 V DC
Power consumption	6 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	420 g, with connecting cable

Dimensions (L x W x H)	95 mm x 107 mm x 41 mm
MTBF	100,000 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 (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

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 , Bar graph for displaying the reading rate percentage (10 LEDs)
Acoustic indicators	s	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Control elements		2 buttons (choose and start/stop functions)
Configuration soft	ware	SOPAS ET

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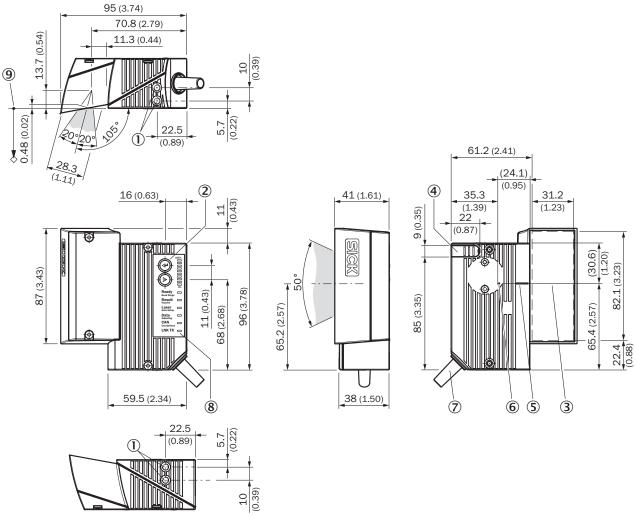
Memory card	MicroSD memory card (flash card), optional
Ambient data	
Ambient data	
Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	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	
ECI@ss 5.0	27280102
ECI@ss 5.1.4	27280102
ECI@ss 6.0	27280102
ECI@ss 6.2	27280102

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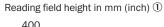
Dimensional drawing (Dimensions in mm (inch))

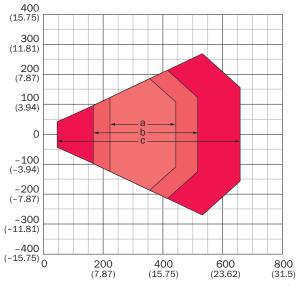
CLV63x/64x/65x Standard, oscillating mirror



- 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
- 7 Cable with 15-pin D-sub HD male connector
- 8 LED status indicator (6x) and bar graph
- Reference point for reading distance (from housing edge to object)

Reading field diagram





Reading distance in mm (inch) ②

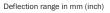


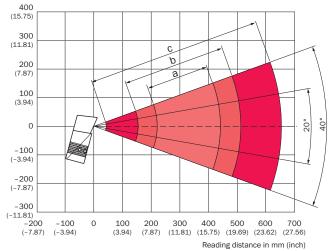
a: 0.35 mm (13.8 mil)

b: 0.50 mm (19.7 mil)

c: 1.0 mm (39.4 mil)

Deflection width





Resolution

a: 0.35 mm (13.8 mil)

b: 0.50 mm (19.7 mil)

c: 1.0 mm (39.5 mil)

Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brad	Mounting brackets and plates			
	Hanger-shaped mounting bracket, mounting hardware included	Mounting bracket	2042800	
Cloning modu	le			
M 1 mar (4	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	
Storage media				
	microSD memory card with 1 GB for industrial use	microSD memory card	4051366	

Recommended services

Additional services → www.sick.com/CLV63x

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	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

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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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