

CLV630-1120

CLV63x

BAR CODE SCANNERS





Ordering information

Туре	Part no.
CLV630-1120	1041971

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



Detailed technical data

Features

Version	Long Range
Connection type	Ethernet
Reading field	Front
Scanner design	Raster scanner
Focus	Fixed focus
Light source	Visible red light (655 nm)
MTBF	40,000 h
Laser class	2 (EN 60825-1 (A2:2001-03), IEC 60825-1:2007-03, Ed. 2.0)
Aperture angle	≤ 50°
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.35 mm 1 mm
Reading distance	60 mm 735 mm ¹⁾
Raster height, number of lines, at distance	15 mm, 8, 200 mm
Heating	Optional

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

Performance

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	1 99

Interfaces

Ethernet TCP/IP	✓

	Function	Host, AUX
Data transr	mission rate	10/100 MBit/s
PROFINET		✓
	Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transr	mission rate	10/100 MBit/s
EtherNet/IP™		✓
Data transr	mission rate	10/100 MBit/s
EtherCAT®		✓
Type of fieldbus	integration	Optional over external fieldbus module CDF600
Serial		√ , RS-232, RS-422, RS-485
	Function	Host, AUX
Data transr	mission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN		✓
	Function	SICK CAN sensor network (Master/Slave, Multiplexer/Server)
Data transr	mission rate	20 kbit/s 1 Mbit/s
CANopen		✓
Data transr	mission 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 via external connection module CDM + CMF
Switching inputs		3 ("Sensor 1", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Switching outputs		2 (via CMC600 in CDB620/CDM420)
Reading pulse		Switching input "Sensor 1", 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		Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Operating elements		2 buttons (choose and start/stop functions)
Configuration software		SOPAS ET
Memory card		MicroSD memory card (flash card) 512 MB, optional

Mechanics/electronics

Electrical connection	2xM12 cylindrical connectors (12-pin male connector, 4-pin female connector) on swivel connector
Operating voltage	18 V DC 30 V DC
Power consumption	5 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Front screen	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	250 g, without connecting cable

¹⁾ Swivel connector is 15 mm longer.

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mensions (L x W x H)	61 mm x 96 mm x 38 mm ¹⁾
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¹⁾ Swivel connector is 15 mm longer.

Ambient data

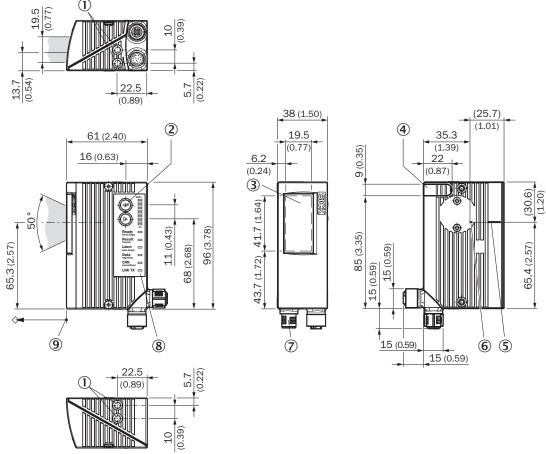
Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	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
ETIM 5.0	EC002550
ETIM 6.0	EC002550
UNSPSC 16.0901	43211701

Dimensional drawing (Dimensions in mm (inch))

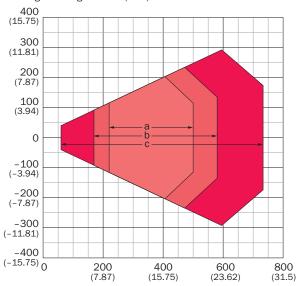
CLV63x/64x/65x, JEF3xx, JEF5xx, Ethernet, front



- 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
- 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)

For devices with plastic reading window, the depth of field is reduced by approx. 10 %.

Resolution



b: 0.50 mm (19.7 mil)

c: 1.0 mm (39.4 mil)

Recommended accessories

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

	Brief description	Туре	Part no.		
Mounting brackets and plates					
	Hanger-shaped mounting bracket, mounting hardware included	Mounting bracket	2042800		
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705		
Modules					
	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256		
	Modular connection module for one sensor	CDM420-0001	1025362		
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	Connection cable (male connector - female connector)	2041834		
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, drag chain use, PUR, shielded, 2 m	SSL-2J04-G02ME	6034414		

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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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