

CLV630-3120

CLV63x

BAR CODE SCANNERS





Ordering information

| Туре | Part no. |
|-------------|----------|
| CLV630-3120 | 1041975 |

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



Detailed technical data

Features

| Version | Long Range |
|---|---------------------------------------|
| Connection type | Ethernet |
| Reading field | Side (105°) |
| Scanner design | Raster scanner |
| Focus | Fixed focus |
| Light source | Visible red light (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 | 0.35 mm 1 mm |
| Reading distance | 44 mm 683 mm ¹⁾ |
| Raster height, number of lines, at distance | 15 mm, 8, 185 mm |

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

Mechanics/electronics

| Electrical connection | $2\ x\ M12$ 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 | Glass |
| Enclosure rating | IP65 (EN 60529) |
| Protection class | III (EN 61140) |

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

| Weight | 270 g, without connecting cable |
|------------------------|-------------------------------------|
| Dimensions (L x W x H) | 80 mm x 96 mm x 38 mm ¹⁾ |
| MTBF | 40,000 h |

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

Performance

| Readable code structures | 1D |
|--|---|
| 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

| Ethernet | | ✓, TCP/IP |
|-----------------|------------------------------|---|
| | Function | Host, AUX |
| | Data transmission rate | 10/100 MBit/s |
| PROFINET | | 1 |
| | Function | PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2) |
| | Data transmission rate | 10/100 MBit/s |
| EtherNet/IP™ | | 1 |
| | Data transmission 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 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 | | 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 |
| 0, | | |

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| 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), optional |

Ambient data

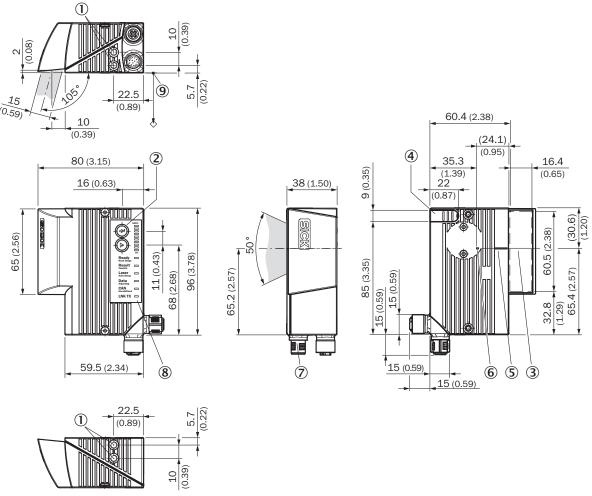
| Electromagnetic compatibility (EMC) | EN 61000-6-3 (2001-10) / EN 61000-6-2:2005 |
|-------------------------------------|--|
| Vibration resistance | EN 60068-2-6 (1995) |
| Shock resistance | EN 60068-2-27 (1993) |
| Ambient operating temperature | 0 °C +40 °C |
| Storage temperature | -20 °C +70 °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 |

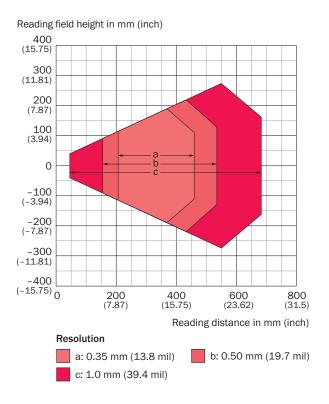
Dimensional drawing (Dimensions in mm (inch))

CLV63x/64x Ethernet, side



- ① Blind hole thread M5, 5 mm deep (2 x), for mounting
- ② Function button (2 x)
- 3 Reading field
- 4 Cover for the microSD memory card
- $\ensuremath{\mathfrak{G}}$ 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



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 | |
| Modules and | gateways | | | |
| MA STATE OF THE ST | External parameter memory for integration in CDB620/CDB650/CDM42x | CMC600-101 | 1042259 | |
| Plug connecto | ors 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 | |
| Modules | | | | |
| | Small connection module for one sensor, 4 cable glands, base for CMC600 | CDB620-001 | 1042256 | |

| | Brief description | Туре | Part no. |
|---------------|---|------------------------|----------|
| Storage media | a de la companya de | | |
| | microSD memory card with 1 GB for industrial use | microSD memory card | 4051366 |

Recommended services

Additional services → www.sick.com/CLV63x

| | Туре | Part no. |
|--|------------------------------------|----------|
| Warranty extensions | | |
| Product area: Identification solutions, 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), Long-term protection for calculable lump sum. Duration: Five-year warranty from date of purchase. | Five-year extended warranty | 1680671 |
| Performance check | | |
| Product area: Bar code scanners Range of services: Inspection of defined functions, e.g., reading performance Documentation: Documentation of reading performance, Creation of a performance check log Duration: Additional work will be invoiced separately based on time spent Note: The prices do not include expenses or costs for the travel time | Performance check CLV4xx/CLV6xx | 1682028 |
| Maintenance | | |
| Product area: Bar code scanners Range of services: Inspection, analysis and restoring of defined functions, Inspection and adjustment of reading configuration, code configuration, data processing and network or interfaces Documentation: Documentation of operating hours and archiving of parameters in a SICK database, Documentation of reading performance, Creation of a maintenance log Duration: Additional work will be invoiced separately based on time spent Note: The prices do not include expenses or costs for the travel time | Maintenance CLV4xx/CLV6xx | 1611420 |
| Training | | |
| Product family group: Bar code scanners Range of services: SICK offers training courses for numerous target groups ranging from basic to expert levels, the training format and location can be worked out in collaboration with SICK Note: A minimum and maximum number of participants is determined based on the training format, depending on the training format, content and location, a training course may take place over the course of one or more work days Duration: The fixed price includes the specific training services agreed upon with the customer, the fixed price includes the work time required for the training services, the required work time depends on the range of services, Additional work will be invoiced separately based on time spent Travel expenses: The prices include costs for the travel time and expensestravel costs, such as flight or hotel expenses, are not included | Training for the CLV6 series | 1612231 |

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| | Туре | Part no. |
|--|--------------------------------|----------|
| Commissioning | | |
| Product area: 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 Documentation: Archiving of product parameters in a SICK database, Documentation of reading performance, Creation of a commissioning log Duration: Additional work will be invoiced separately based on time spent Note: The prices do not include expenses or costs for the travel time | 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

