

CLV632-0000 CLV63x

FIXED MOUNT BARCODE SCANNERS





Ordering information

| Туре | Part no. |
|-------------|----------|
| CLV632-0000 | 1041988 |

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



Detailed technical data

Features

| Version | Short Range |
|--------------------|---|
| Connection type | Cable |
| Reading field | Front |
| Sensor type | 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° |
| Reading distance | 60 mm 285 mm ¹⁾ |
| Scanning frequency | 400 Hz 1,200 Hz |
| Code resolution | 0.2 mm 0.5 mm |

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

Mechanics/electronics

| Connection type | 1 x 15-pin D-Sub HD male connector (0.9 m) |
|------------------------|--|
| Supply voltage | 18 V DC 30 V DC |
| Power consumption | 5 W |
| Housing | Aluminum die cast |
| Housing color | Light blue (RAL 5012) |
| Window material | Glass |
| Enclosure rating | IP65 (EN 60529) |
| Protection class | III (EN 61140) |
| Weight | 320 g, with connecting cable |
| Dimensions (L x W x H) | 61 mm x 96 mm x 38 mm |

¹⁾ At 25 °C.

| МТВБ | 100,000 h |
|------|--------------------------------------|
| МТТБ | 40,000 h (Laser diode) ¹⁾ |

¹⁾ At 25 °C.

Performance

| Readable code structures | 1D codes |
|--|--|
| Bar code types | All current code types |
| Code printing process | Label (printed codes) |
| 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

| PROFINET | √ , RS-232, RS-422, RS-485 |
|------------------------------|---|
| Type of fieldbus integration | Optional over external fieldbus module CDF600-2 Optional over external fieldbus module CDF600 Optional over external fieldbus module CDF600-2 |
| Function | PROFINET Single Port, PROFINET Dual Port Data interface (read result output), Service interface SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server) |
| Data transmission rate | 2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232) 20 kbit/s 1 Mbit/s 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 |
| 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) |
| Control elements | 2 buttons (choose and start/stop functions) |
| Configuration software | SOPAS ET |
| Memory card | MicroSD memory card (flash card), optional |

Ambient data

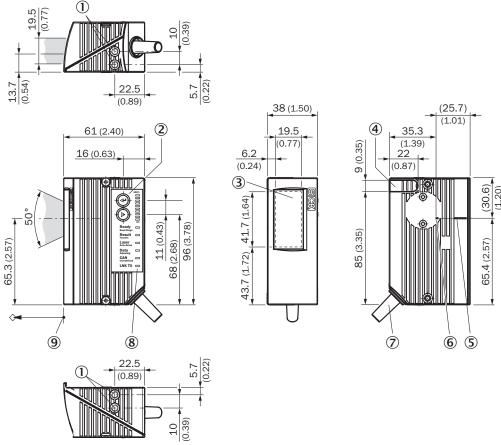
| Electromagnetic compatibility (EMC) | EN 61000-6-3 (2001-10) / EN 61000-6-2:2005 |
|-------------------------------------|--|
| Vibration resistance | EN 60068-2-6 (1995) |
| Shock resistance | EN 60068-2-27 (1993) |
| Ambient operating temperature | 0 °C +40 °C |
| Storage temperature | -20 °C +70 °C |
| Permissible relative humidity | 90 %, Non-condensing |
| Ambient light immunity | 2,000 lx, on barcode |
| Bar code print contrast (PCS) | ≥ 60 % |

General notes

| Note on use | For Ethernet connection please use an Ethernet version of CLV6xx |
|-----------------|--|
| Classifications | |
| ECLASS 5.0 | 27280102 |
| ECLASS 5.1.4 | 27280102 |
| ECLASS 6.0 | 27280102 |
| ECLASS 6.2 | 27280102 |
| ECLASS 7.0 | 27280102 |
| ECLASS 8.0 | 27280102 |
| ECLASS 8.1 | 27280102 |
| ECLASS 9.0 | 27280102 |
| ECLASS 10.0 | 27280102 |
| ECLASS 11.0 | 27280102 |
| ECLASS 12.0 | 27280102 |
| ETIM 5.0 | EC002550 |
| ETIM 6.0 | EC002550 |
| ETIM 7.0 | EC002550 |
| ETIM 8.0 | EC002550 |
| UNSPSC 16.0901 | 43211701 |

Dimensional drawing (Dimensions in mm (inch))

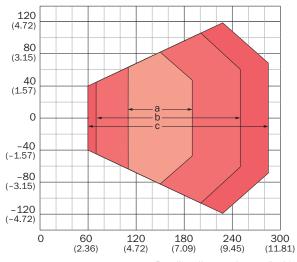
CLV63x/64x/65x Standard, front



- 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
- 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 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. |
|------------------------------|--|------------------------|----------|
| Cloning modu | les | | |
| ST C | External parameter memory for integration in CDB620/CDB650/CDM42x | CMC600-101 | 1042259 |
| Storage media | | | |
| TO THE | microSD memory card with 1 GB for industrial use | microSD memory card | 4051366 |
| Mounting brackets and plates | | | |
| | Hanger-shaped mounting bracket, mounting hardware included | Mounting bracket | 2042800 |
| Modules | | | |
| | Sub product family: CDB620 Supported products: CLV61x - CLV65x, Lector62x, RFH6xx, RFU62x Brief description: Small connection module for one sensor, 4 cable glands, base for CMC600 | CDB620-001 | 1042256 |

Recommended services

Additional services → www.sick.com/CLV63x

| | Туре | Part no. |
|---|--|----------|
| Performance check | | |
| Product area: Fixed mount barcode 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 |
| Commissioning | | |
| Product area: Fixed mount barcode 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 |
| Extended warranty | | |
| Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. | Extended warranty for a total of five years from delivery date | 1680671 |

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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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