

CLV610-C1900S01

CLV61x

FIXED MOUNT BARCODE SCANNERS





Ordering information

| Туре | Part no. |
|-----------------|----------|
| CLV610-C1900S01 | 1062864 |

Other models and accessories → www.sick.com/CLV61x



Detailed technical data

Features

| Version | Mid Range |
|---|---|
| Connection type | Cable |
| Reading field | Front |
| Sensor type | Raster scanner |
| Optical focus | Fixed focus |
| Light source | Light spot, laser, Visible, Red, 655 nm |
| Laser class | 2 (IEC 60825-1:2014, EN 60825-1:2014) |
| Aperture angle | ≤ 50° |
| Reading distance | 60 mm 365 mm ¹⁾ |
| Scanning frequency | 400 Hz 1,000 Hz |
| Code resolution | 0.2 mm 1 mm |
| Raster height, number of lines, at distance | 15 mm, 8, 200 mm |

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

Mechanics/electronics

| Connection type | 1 x 15-pin D-Sub HD male connector (0.26 m) |
|-------------------|---|
| Supply voltage | 10 V DC 30 V DC |
| Power consumption | 2.8 W |
| Housing | Aluminum die cast |
| Housing color | Light blue (RAL 5012) |
| Window material | Glass |
| Enclosure rating | IP65 (DIN 40 050) |
| Protection class | III (VDE 0106/IEC 1010-1) |

 $^{^{1)}}$ At 25 $\,^{\circ}$ C.

| Weight | 265 g, with connecting cable |
|------------------------|------------------------------|
| Dimensions (L x W x H) | 61 mm x 66 mm x 38 mm |
| MTBF | 100,000 h |
| MTTF | 40,000 h (Laser diode) 1) |

¹⁾ At 25 °C.

Performance

| Readable code structures | 1D codes |
|--|---|
| Bar code types | All current code types, Code 39, Code 128, Code 93, Codabar, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode |
| Code printing process | Label (printed codes) |
| Print ratio | 2:1 3:1 |
| No. of codes per scan | 1 10 (Standard decoder) 1 6 (SMART620) |
| No. of codes per reading interval | 1 50 (auto-discriminating) |
| No. of characters per reading interval | 1,500 500 (for multiplexer function in CAN operation) |
| No. of multiple readings | 199 |

Interfaces

| Serial | √ , RS-232 | |
|------------------------|---|--|
| Function | Host, AUX | |
| Data transmission rate | 2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud | |
| CAN | ✓ | |
| Function | SICK CAN sensor network CSN (master/slave, multiplexer/server) | |
| Data transmission rate | 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, non-powered, serial interface, auto pulse, CAN | |
| Optical indicators | 1 RGB LED (multifunctional) | |
| Acoustic indicators | Beeper/buzzer (can be switched off, can be allocated as a result indication function) | |
| Configuration software | SOPAS ET | |

Ambient data

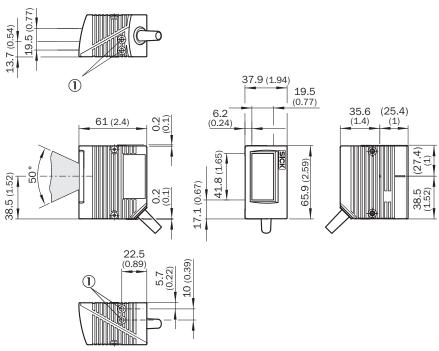
| Electromagnetic compatibility (EMC) | EN 61000-6-4 (2007-01) + A1 (2011) / EN 61000-6-2:2005-08 |
|-------------------------------------|---|
| Vibration resistance | EN 60068-2-6:2008-02 |
| Shock resistance | EN 60068-2-27:2009-05 |
| Ambient operating temperature | 0 °C +40 °C |
| Storage temperature | -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

| Items supplied | Single scanner |
|-----------------|----------------|
| Classifications | |
| eCl@ss 5.0 | 27280102 |
| eCl@ss 5.1.4 | 27280102 |
| eCl@ss 6.0 | 27280102 |
| eCl@ss 6.2 | 27280102 |
| eCl@ss 7.0 | 27280102 |
| eCl@ss 8.0 | 27280102 |
| eCl@ss 8.1 | 27280102 |
| eCl@ss 9.0 | 27280102 |
| eCl@ss 10.0 | 27280102 |
| eCl@ss 11.0 | 27280102 |
| eCl@ss 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))

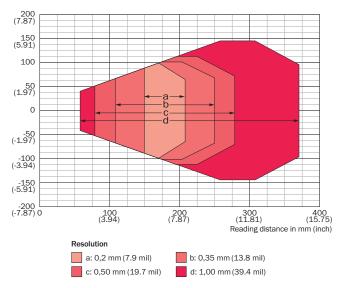
CLV61x Standard, front



① Blind hole thread M5, 5 mm deep (2 x), for mounting

Reading field diagram





Recommended accessories

Other models and accessories → www.sick.com/CLV61x

| | Brief description | Туре | Part no. | |
|---------------------------------------|--|------------------|----------|--|
| Cloning modu | Cloning module | | | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | External parameter memory for integration in CDB620/CDB650/CDM42x | CMC600-101 | 1042259 | |
| Mounting brad | Mounting brackets and plates | | | |
| | Bracket with adapter board | Mounting bracket | 2042902 | |
| 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/CLV61x

| | 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 | |
| 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 of delivery). Duration: Five-year warranty from delivery date. | Extended warranty for a total of five years from delivery date | 1680671 | |
| 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 | |

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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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