

CLV651-0000 CLV65x

> SICK Sensor Intelligence.

**FIXED MOUNT BARCODE SCANNERS** 

## CLV651-0000 | CLV65x

FIXED MOUNT BARCODE SCANNERS



#### Ordering information

Туре	Part no.
CLV651-0000	1046557

Other models and accessories -> www.sick.com/CLV65x



#### Detailed technical data

Features	
Version	Low Density
Connection type	Cable
Reading field	Front
Sensor type	Line scanner
Optical focus	Auto focus
Light source	Light spot, laser, Visible, Red, 658 nm
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	170 mm 930 mm <sup>1)</sup>
Scanning frequency	600 Hz 1,000 Hz
Code resolution	0.5 mm

<sup>1)</sup> 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	8.5 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

<sup>1)</sup> At 25 °C.

### CLV651-0000 | CLV65x

FIXED MOUNT BARCODE SCANNERS

MTBF	100,000 h
MTTF	40,000 h (Laser diode) <sup>1)</sup>

<sup>1)</sup> 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	199

#### 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	$6~\mbox{LEDs}$ (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)

## CLV651-0000 | CLV65x

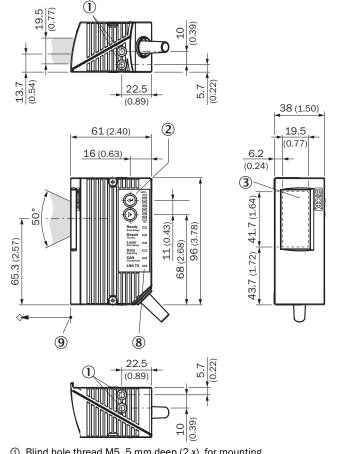
FIXED MOUNT BARCODE SCANNERS

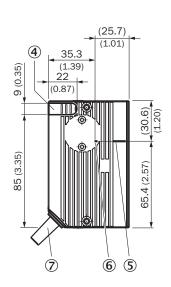
#### General notes

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

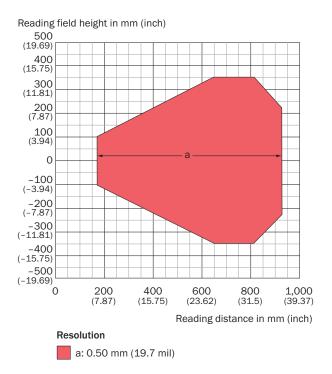




- ① Blind hole thread M5, 5 mm deep (2 x), for mounting
- ② Function button (2 x)
- ③ Reading field
- ④ Cover for the microSD memory card
- ⑤ Central position of the deflected laser beam in the V-shaped aperture angle
- ⑥ Internal impact point: rotation point of the variable direction laser beam
- ⑦ Cable with 15-pin D-sub HD male connector
- (8) LED status indicator (6x) and bar graph
- (9) Reference point for reading distance (from housing edge to object)

### CLV651-0000 | CLV65x FIXED MOUNT BARCODE SCANNERS

#### Reading field diagram



#### **Recommended accessories**

Other models and accessories -> www.sick.com/CLV65x

	Brief description	Туре	Part no.	
Cloning modu	Cloning modules			
	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259	
Storage media				
	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				
	<ul> <li>Sub product family: CDB620</li> <li>Supported products: CLV61x - CLV65x, Lector62x, RFH6xx, RFU62x</li> <li>Brief description: Small connection module for one sensor, 4 cable glands, base for CMC600</li> </ul>	CDB620-001	1042256	

FIXED MOUNT BARCODE SCANNERS

#### **Recommended services**

#### Additional services -> www.sick.com/CLV65x

	Туре	Part no.
Performance check		
<ul> <li>Product area: Fixed mount barcode scanners</li> <li>Range of services: Inspection of defined functions, e.g., reading performance</li> <li>Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses.</li> <li>Duration: Additional work will be invoiced separately</li> </ul>	Performance check CLV4xx/CLV6xx	1682028
Commissioning		
<ul> <li>Product area: Fixed mount barcode scanners</li> <li>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</li> <li>Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses.</li> <li>Duration: Additional work will be invoiced separately</li> </ul>	Commissioning CLV65x CLV69x	1681926
Service agreements		
<ul> <li>Product area: Fixed mount barcode scanners</li> <li>Range of services: According to the scope defined in the contract, for example extended warranty, repair service, availability guarantee as well as spare parts provided periodically by SICK (bracket with shock absorber), Other possible contractual elements</li> <li>Duration: 3 year duration from delivery date of the initial hardware</li> </ul>	Forklift Package CLV65x for 3 years	1614610
<ul> <li>Product area: Fixed mount barcode scanners</li> <li>Range of services: According to the scope defined in the contract, for example extended warranty, repair service, availability guarantee as well as spare parts provided periodically by SICK (bracket with shock absorber), Other possible contractual elements</li> <li>Duration: 5 year duration from delivery date of the initial hardware</li> </ul>	Forklift Package CLV65x for 5 years	1614609
Extended warranty		
<ul> <li>Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors</li> <li>Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery).</li> <li>Duration: Five-year warranty from delivery date.</li> </ul>	Extended warranty for a total of five years from delivery date	1680671

# 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



Online data sheet

