

CLV650-08300A

CLV65x

**BAR CODE SCANNERS** 





## Ordering information

Туре	Part no.
CLV650-08300A	1050845

Other models and accessories → www.sick.com/CLV65x



#### Detailed technical data

#### **Features**

Version	Standard Density
Connection type	Ethernet
Reading field	Front
Scanner design	Line scanner
Focus	Auto focus
Light source	Visible red light (658 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	600 Hz 1,000 Hz
Code resolution	0.25 mm 1 mm
Reading distance	140 mm 1,625 mm <sup>1)</sup>
Heating	Optional

 $<sup>^{1)}</sup>$  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	199

#### Interfaces

Ethernet TCP/IP	✓, TCP/IP
Function	Host, AUX

Data tuan anciasi	10/400 MPH/s
	n rate 10/100 MBit/s
PROFINET	✓
F	nction PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmissi	n rate 10/100 MBit/s
EtherNet/IP™	✓
Data transmissi	n rate 10/100 MBit/s
EtherCAT®	✓
Type of fieldbus inte	oration Optional over external fieldbus module CDF600
Serial	✓, RS-232, RS-422, RS-485
F	nction Host, AUX
Data transmissi	n rate 2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN	✓
F	nction SICK CAN sensor network (Master/Slave, Multiplexer/Server), object tracking
Data transmissi	n rate 20 kbit/s 1 Mbit/s
CANopen	✓
Data transmissi	n rate 20 kbit/s 1 Mbit/s
PROFIBUS DP	✓
Type of fieldbus inte	optional over external fieldbus module CDF600-2
DeviceNet™	✓
Type of fieldbus inte	ration Optional via external connection module CDM + CMF
Switching inputs	4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Switching outputs	4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420)
Reading pulse	Switching input "Sensor 1", Switching input "Sensor 2", 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 (1 x 17-pin male connector, 4-pin female connector) on swivel connector
Operating voltage	18 V DC 30 V DC
Power consumption	8.5 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Front screen	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)

 $<sup>^{1)}</sup>$  Swivel connector is 15 mm longer.

Weight	250 g, without connecting cable
Dimensions (L x W x H)	61 mm x 96 mm x 38 mm <sup>1)</sup>

 $<sup>^{1)}</sup>$  Swivel connector is 15 mm longer.

#### Ambient data

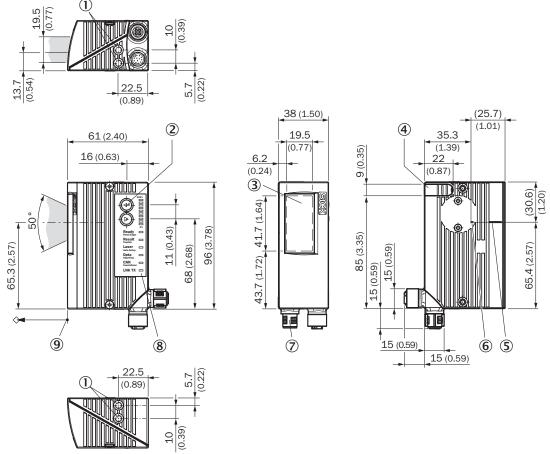
Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	0 °C +40 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity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

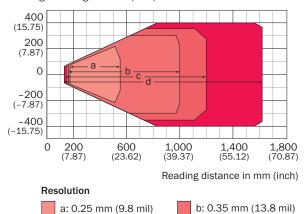
CLV63x/64x/65x, JEF3xx, JEF5xx, Ethernet, front



- 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
- 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)



d: 1.00 mm (39.4 mil)

#### Recommended accessories

c: 0.50 mm (19.7 mil)

Other models and accessories → www.sick.com/CLV65x

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705
	Hanger-shaped mounting bracket, mounting hardware included	Mounting bracket	2042800
Modules			
Chic	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256
O D D D D D D D D D D D D D D D D D D D	Fieldbus proxy/gateway for connecting identification sensors to PROFIBUS-DP networks (PROFIBUS interface: 2 x M12, male connector/female connector, 5-pin)	CDF600-2100	1058965
a m	Fieldbus proxy/gateway for connecting identification sensors to PROFIBUS-DP networks (PROFIBUS interface: $1 \times D$ -Sub, female connector, 9-pin)	CDF600-2103	1058966
la de	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

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Brief description	Туре	Part no.
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	SSL-2J04-G02ME	6034414

## 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

