

FIXED MOUNT BARCODE SCANNERS



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Ordering information

Туре	Part no.
CLV650-0120F0	1058893

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



Detailed technical data

VersionStandard DensityConnection typeEthernetReading fieldFront

	Laternet
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	140 mm 1,625 mm ¹⁾
Scanning frequency	600 Hz 1,000 Hz
Code resolution	0.25 mm 1 mm
Heating	✓
Cold storage applications	✓

 $^{1)}\ensuremath{\mathsf{For}}$ for details see reading field diagram.

Mechanics/electronics

Connection type	$2\ x\ M12$ cylindrical connectors (12-pin male connector, 4-pin female connector) on swivel connector nector 1 x cable, open-ended, 3-wire (2 m)
Supply voltage	\leq 24 V DC, ± 10 %
Power consumption	40 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)

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

²⁾ At 25 °C.

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Weight	450 g, without connecting cable
Dimensions (L x W x H)	61 mm x 96 mm x 50 mm ¹⁾
MTBF	100,000 h
MTTF	40,000 h (Laser diode) ²⁾

 $^{1)}$ Swivel connector is 15 mm longer. $^{2)}$ 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

Ethernet	✓, TCP/IP, RS-232, RS-422, RS-485	
Type of fieldbus integration	Optional over external fieldbus module CDF600 Optional over external fieldbus module CDF600-2	
Function	Data interface (read result output), Service interface PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2) Data interface (read result output), Service interface SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)	
Data transmission rate	10/100 MBit/s 10/100 MBit/s 10/100 MBit/s 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	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	
Optical indicators 6 LEDs (Ready, Result, laser, Data, CAN, LNK TX, Bar graph for displaying the readin centage (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)	

EN 60068-2-27 (1993)

-35 °C ... +35 °C

Ambient operating temperature

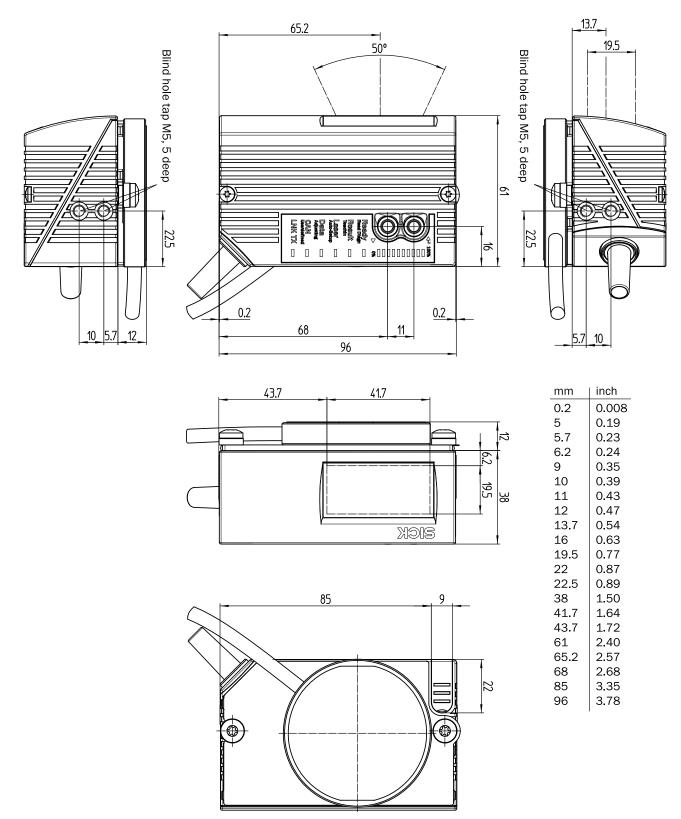
Shock resistance

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a	
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 %
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

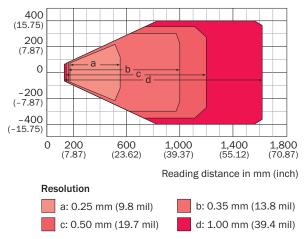
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Dimensional drawing (Dimensions in mm (inch))



Reading field diagram

Reading field height in mm (inch)



Recommended accessories

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

	Brief description	Туре	Part no.
Cloning modules			
	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Electronic mo	dules		
	Additional board for connecting a bar code scanner with heater in combination with CDM-420	Additional board	2055071
Storage media	a		
(A)	microSD memory card with 1 GB for industrial use	microSD memory card	4051366
Mounting brac	ckets and plates		
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705
Plug connectors and cables			
1	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 2 m, 4-wire, AWG26 Description: Ethernet, shielded 	YM2D24- 020EB2MRJA4	6050198

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	Brief description	Туре	Part no.
Modules			
Contraction of the second	 Sub product family: CDM420 Fieldbus interface: PROFIBUS DP, Ethernet, DeviceNet[™] Supported products: Lector62x, CLV61x - CLV65x, Mobile handheld scanners, RFH6xx, RFU62x, RFU63x Brief description: Modular connection module for one sensor 	CDM420-0001	1025362

Recommended services

Additional services -> www.sick.com/CLV65x

	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 CLV65x CLV69x	1681926
Service agreements		
 Product area: Fixed mount barcode scanners 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 Duration: 3 year duration from delivery date of the initial hardware 	Forklift Package CLV65x for 3 years	1614610
 Product area: Fixed mount barcode scanners 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 Duration: 5 year duration from delivery date of the initial hardware 	Forklift Package CLV65x for 5 years	1614609
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

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

