



SICK Sensor Intelligence.

FIXED MOUNT BARCODE SCANNERS

FIXED MOUNT BARCODE SCANNERS



Ordering information

Туре	Part no.
CLV690-1000	1056601

Other models and accessories -> www.sick.com/CLV69x



Detailed technical data

Features

Standard Density
Depending on the cloning plug used
Oscillating mirror
Oscillating mirror
Auto focus (alternative: dynamic focus control)
≤8
≤ 20 ms
Data interface
Light spot, laser, Visible, Red, 660 nm
2 (IEC 60825-1:2014, EN 60825-1:2014)
≤ 50°
500 mm 2,100 mm ¹⁾
400 Hz 1,200 Hz
0.3 mm 1 mm
Fixed (adjustable position)
0.5 Hz 4 Hz
-20° 20° (can be adjusted via software)

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

Mechanics/electronics

Connection type	Depending on the cloning plug used
Supply voltage	18 V DC 30 V DC

¹⁾ At 25 °C.

FIXED MOUNT BARCODE SCANNERS

Power consumption	17 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Glass
Enclosure rating	IP65 (EN 60529/A1 (2002-02))
Weight	2,200 g
Dimensions (L x W x H)	182 mm x 128 mm x 97 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	Interleaved 2 of 5
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
No. of multiple readings	1100

Interfaces

Ethernet	✓, TCP/IP, RS-232, RS-422, RS-485		
Type of fieldbus integration	Optional over external fieldbus module CDF600-2 Optional over external fieldbus module CDF600-2		
Remark	Only with cloning plug I/O, CAN IN/OUT or CAN Redundant		
Function	Data interface (read result output), Service interface PROFINET Single Port, PROFINET Dual Port Data interface (read result output), AUX (only RS-232) SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)		
Data transmission rate	10/100 MBit/s 10/100 MBit/s 0.3 kBaud 115.2 kBaud, AUX: 57.6 kBaud (RS-232) 20 kbit/s 1 Mbit/s		
Digital inputs	6 ("Sensor 1" "Sensor 6")		
Digital outputs	4 ("Result 1" "Result 4")		
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))		
Control elements	2 buttons		
Parameter storage	Integrated in cloning plug		
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		

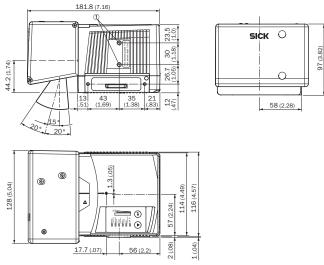
FIXED MOUNT BARCODE SCANNERS

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 %

Classifications

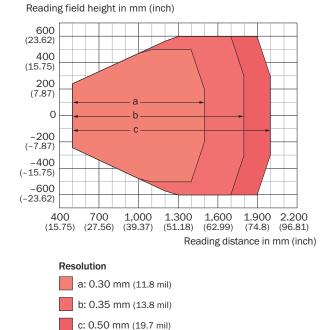
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

Dimensional drawing (Dimensions in mm (inch))

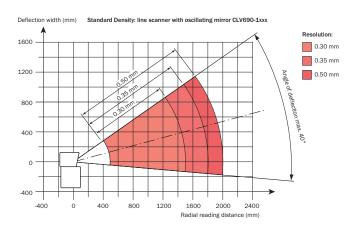


① M6 blind tapped holes, 7 mm deep (2 x), for mounting

Reading field diagram



Deflection width



Recommended accessories

Other models and accessories → www.sick.com/CLV69x

	Brief description	Туре	Part no.
Cloning modu	les		
	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259

FIXED MOUNT BARCODE SCANNERS

	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
	Mounting support with integrated vibration/shock absorption for suspended mounting (absorber elements above the CLV)	Mounting brack- et with vibra- tion/shock absorp- tion for CLV69x	2088163	
Plug connecto	ors and cables			
I I	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 2 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 020PN1MRJA4	2106182	
Terminal and	alignment brackets			
A	Quick-action lock system, mounting hardware included	Quick release	2016110	
0 0 0 00 00 00 00 00 00 00 00 00 00 00	 Connection type head A: Male connector, male connector, female connector, M12, M12, M12, 17-pin, 5-pin, 4-pin Signal type: Power, Ethernet, serial, CAN, digital I/Os Description: Power, Ethernet, serial, CAN, digital I/Os, Required for connecting the CLV69x to the CDM420-006/7/8, CDB650, and CDF600-2 Note: Plug housing I/O, Ethernet Items supplied: With three M12 round connectors (17-pin male connector, 4-pin Ethernet female connector, 5-pin CAN male connector) 	Cloning plug	2062452	
1	 Connection type head A: Female connector, M12, 17-pin, straight, A-coded Connection type head B: Male connector, M12, 17-pin, straight, A-coded Signal type: Power, serial, CAN, digital I/Os Cable: 2 m, suitable for refrigeration Description: Power, serial, CAN, digital I/Os, suitable for 2 A, shielded 	YM2A8D- 020XXXF2A8D	6053230	
Modules				
	 Sub product family: CDB650 Supported products: Lector[®] series, CLV62x - CLV64x (depending on type), CLV69x, RFID read/write device, InspectorP series Brief description: Connection device basic for connecting one sensor with 2 A fuse, 5 cable glands and RS-232 interface to sensor via M12, 17-pin female connector, all outputs available on screw/spring-loaded terminals. 	CDB650-204	1064114	

Recommended services

Additional services -> www.sick.com/CLV69x

	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

CLV690-1000 | CLV69x FIXED MOUNT BARCODE SCANNERS

	Туре	Part no.		
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: Robot guidance systems, Track and trace systems, Driver assistance systems, Object detection systems, Profiling systems, Gateway systems, Quality control systems Range of services: Maintenance, Troubleshooting, extended warranty, 8/5 remote support, 8/5 help desk Duration: Duration is arranged individually with the customer and defined in the contract 	Bronze service agree- ments for Systems	1616164		
 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 CLV69x for 5 years	1614613		
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

