



CLV691-1001 CLV69x

FIXED MOUNT BARCODE SCANNERS





Ordering information

Туре	part no.
CLV691-1001	1056607

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



Detailed technical data

Features

Version	Low Density
Connection type	Depending on the cloning plug used
Reading field	Oscillating mirror
Sensor type	Oscillating mirror
Optical focus	Auto focus (alternative: dynamic focus control)
No. of distance configurations	≤8
Focus adjustment time	≤ 20 ms
Focus trigger source	Data interface / Digital inputs
Light source	Light spot, laser, Visible, Red, 660 nm
Laser class	2, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 56" from May 8, 2019 (EN 60825-1:2014+A11:2021, IEC 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	500 mm 2,100 mm ¹⁾
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.35 mm 1.2 mm
Oscillating mirror functions	Fixed (adjustable position), oscillating (variable or fixed amplitude), one shot
Oscillation frequency	0.5 Hz 4 Hz
Angle of deflection	-20° 20° (can be adjusted via software)
Heating	✓
Front screen heating	✓

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

Cold storage applications

Mechanics/electronics

Connection type	Depending on the cloning plug used
Supply voltage	21.6 V DC 28.8 V DC
Power consumption	80 W
Housing material	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, all current code types, Codabar, Code 128, Code 39, Code 93, GS1-128 $/$ EAN 128, UPC $/$ GTIN $/$ EAN
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
Remark	Only with cloning plug I/O, CAN IN/OUT or CAN Redundant
Function	Data interface (read result output), Service interface
Data transmission rate	10/100 MBit/s
PROFINET	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Remark	Only with cloning plug I/O, CAN IN/OUT or CAN Redundant
Function	PROFINET Single Port, PROFINET Dual Port
EtherNet/IP TM	✓
Remark	Only with cloning plug I/O, CAN IN/OUT or CAN Redundant
Data transmission rate	10/100 MBit/s
Serial	✓ , RS-232, RS-422, RS-485
Remark	Only with cloning plug D-Sub and Ethernet
Function	Data interface (read result output), AUX (only RS-232)

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

Data transmission rate	0.3 kBaud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN	✓
Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
Data transmission rate	20 kbit/s 1 Mbit/s
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Digital inputs	6 ("Sensor 1" "Sensor 6")
Digital outputs	4 ("Result 1" "Result 4")
Reading pulse	Digital inputs, 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))
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
Shock resistance	EN 60068-2-27:2009-05
Ambient operating temperature	-35 °C +35 °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 %

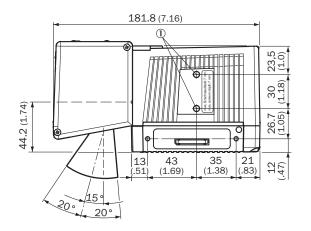
Classifications

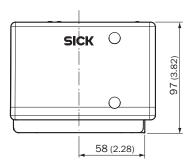
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC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

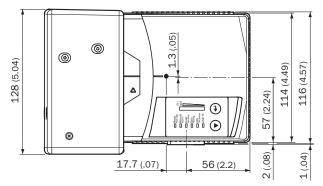
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	√
China RoHS	√
cULus certificate	√
Profinet certificate	√
Laser safety (IEC 60825-1) declaration of manufacturer	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓
4Dpro	√

Dimensional drawing





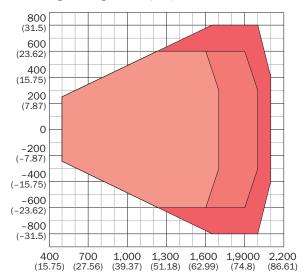


Dimensions in mm (inch)

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

Reading field diagram





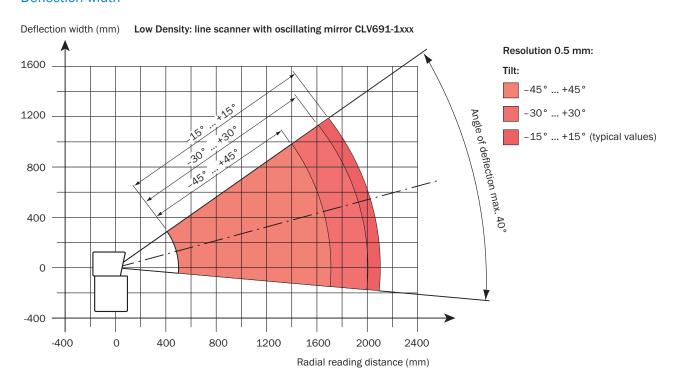
Resolution 0.5 mm (19.7 mil)

Tilt ± 45°

Tilt ± 30°

Tilt ± 15° (typical values)

Deflection width



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