



CLV632-3121

CLV63x

FIXED MOUNT BARCODE SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
CLV632-3121	1077806

Other models and accessories → www.sick.com/CLV63x



Detailed technical data

Features

Version	Short Range
Connection type	Ethernet
Reading field	Side (105°)
Sensor type	Raster scanner
Optical focus	Fixed focus
Light source	Light spot, laser, Visible, Red, 655 nm
Light spot	Circular
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	44 mm ... 256 mm ¹⁾
Scanning frequency	400 Hz ... 1,200 Hz
Code resolution	0.2 mm ... 0.5 mm
Raster height, number of lines, at distance	15 mm, 8, 185 mm

¹⁾ 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
Supply voltage	18 V DC ... 30 V DC

¹⁾ Swivel connector is 15 mm longer.

²⁾ At 25 °C.

Power consumption	5 W
Housing material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Plastic
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	270 g, without connecting cable
Dimensions (L x W x H)	80 mm x 96 mm x 38 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 39, Code 128, Code 93, Codabar, GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode, GS1 DataBar, Telepen, MSI/Plessey
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	1 ... 99

Interfaces

Ethernet	Function	✓ , TCP/IP
	Data transmission rate	Data interface (read result output), Service interface 10/100 MBit/s
PROFINET	Function	✓ PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
	Data transmission rate	10/100 MBit/s
EtherNet/IP™	Function	✓
	Data transmission rate	10/100 MBit/s
EtherCAT®	Function	✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial	Function	✓ , RS-232, RS-422, RS-485
	Data transmission rate	Data interface (read result output), Service interface 2,400 Baud ... 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
	Data transmission rate	
CAN	Function	✓ SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
	Data transmission rate	20 kbit/s ... 1 Mbit/s
CANopen	Function	✓

Data transmission rate	20 kbit/s ... 1 Mbit/s
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
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, 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)
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)
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

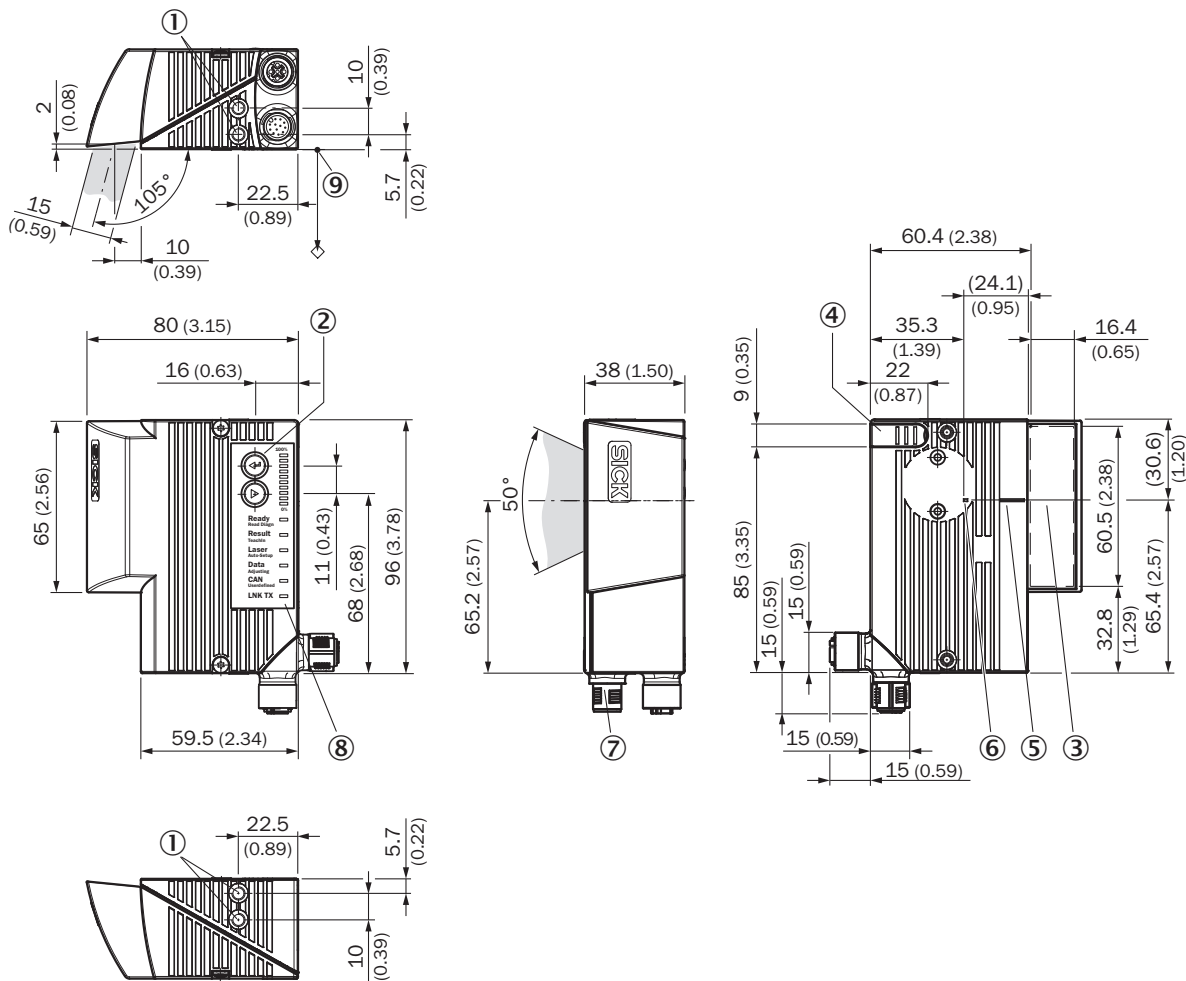
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC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

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓

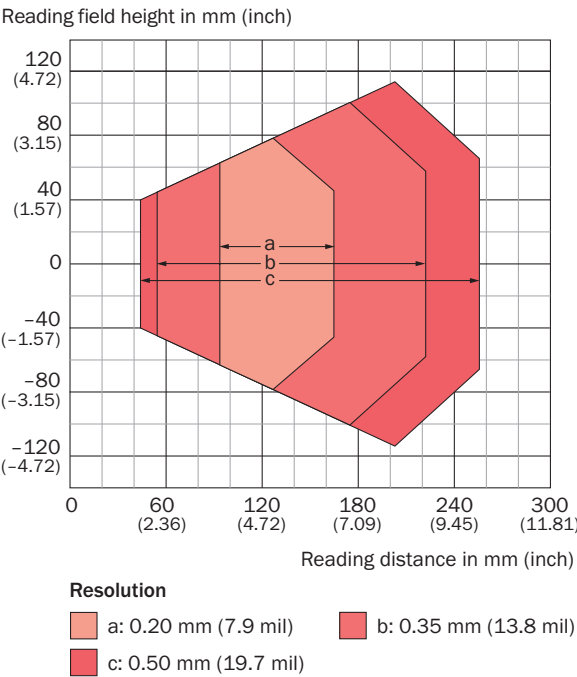
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Ethercat certificate	✓
Profinet certificate	✓
Laser safety (IEC 60825-1) declaration of manufacturer	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓
4Dpro	✓

Dimensional drawing CLV63x/64x Ethernet, side



- ⑦ M12 round connectors (1 x 12-pin or 1 x 17-pin male connector, A-coded, 1 x 4-pin female connector, D-coded) with swivel connector
- ⑧ LED status indicator (6x) and bar graph
- ⑨ reference point for reading distance (from housing edge to object)

Reading field diagram



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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.”

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