



CLV630-1000F0

CLV63x

**FIXED MOUNT BARCODE SCANNERS** 





# Ordering information

Туре	part no.
CLV630-1000F0	1051734

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



#### Detailed technical data

#### **Features**

Version	Long Range
Connection type	Cable
Reading field	Front
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	60 mm 735 mm <sup>1)</sup>
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.35 mm 1 mm
Raster height, number of lines, at distance	15 mm, 8, 200 mm
Heating	✓
Cold storage applications	<b>√</b>

 $<sup>^{1)}</sup>$  For details see reading field diagram.

# Mechanics/electronics

Connection type	1 x 15-pin D-Sub HD male connector (0.9 m) 1 x cable, open-ended, 3-wire (2 m)

 $<sup>^{1)}</sup>$  At 25  $^{\circ}\text{C}.$ 

Supply voltage	≤ 24 V DC, ± 10 %
Power consumption	40 W
Housing material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Glass
Enclosure rating	IP65 (EN 60529)
Protection class	III (EN 61140)
Weight	520 g, with connecting cable
Dimensions (L x W x H)	61 mm x 96 mm x 50 mm
MTBF	100,000 h
МТТБ	40,000 h (Laser diode) <sup>1)</sup>

<sup>&</sup>lt;sup>1)</sup> 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	199

# Interfaces

PROFINET		<b>√</b>
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
	Function	PROFINET Single Port, PROFINET Dual Port
EtherCAT <sup>®</sup>		✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial		✓ , RS-232, RS-422, RS-485
	Function	Data interface (read result output), Service interface
	Data transmission rate	2,400 Baud 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
CANopen		✓
	Data transmission rate	20 kbit/s 1 Mbit/s
PROFIBUS DP		<b>√</b>
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Digital inputs		4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/ CDM420)

Digital outputs	4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 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	-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 %

#### General notes

Note on use For Ethernet connection please use an Ethernet version of CLV6xx	
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#### Classifications

TOL 400 T 0	07000100
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

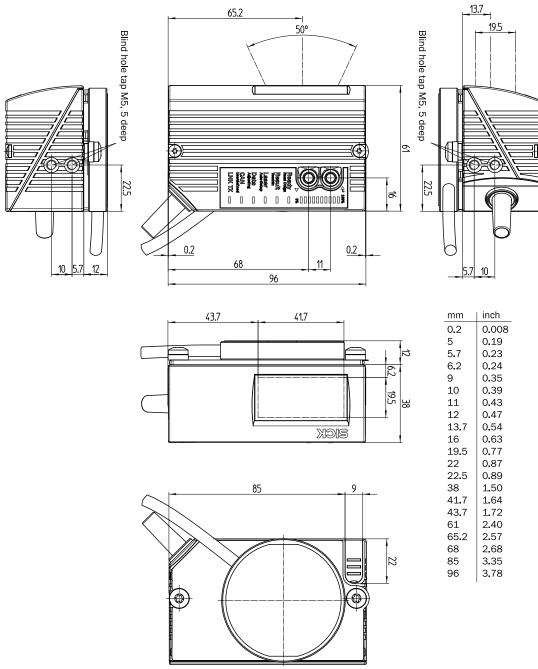
#### Certificates

EU declaration of conformity	<b>√</b>
UK declaration of conformity	J .
ACMA declaration of conformity	<b>√</b>

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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	✓

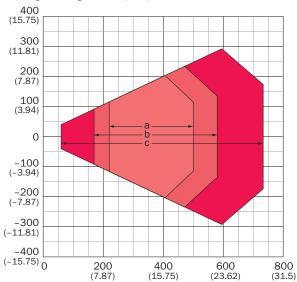
# **Dimensional drawing**



Dimensions in mm (inch)

# Reading field diagram

#### Reading field height in mm (inch)



Reading distance in mm (inch)

For devices with plastic reading window, the depth of field is reduced by approx. 10 %.

#### Resolution



b: 0.50 mm (19.7 mil)

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