



CLV621-0000

CLV62x

BAR CODE SCANNERS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
CLV621-0000	1041784

Other models and accessories → [www.sick.com/CLV62x](http://www.sick.com/CLV62x)



## Detailed technical data

## Features

<b>Version</b>	Long Range
<b>Connection type</b>	Cable
<b>Reading field</b>	Front
<b>Scanner design</b>	Line scanner
<b>Focus</b>	Fixed focus
<b>Light source</b>	Visible red light (655 nm)
<b>Laser class</b>	2 (IEC 60825-1:2014, EN 60825-1:2014)
<b>Aperture angle</b>	≤ 50°
<b>Scanning frequency</b>	400 Hz ... 1,200 Hz
<b>Code resolution</b>	0.35 mm ... 1 mm
<b>Reading distance</b>	60 mm ... 730 mm <sup>1)</sup>

<sup>1)</sup> For details see reading field diagram.

## Mechanics/electronics

<b>Electrical connection</b>	1 x 15-pin D-Sub HD male connector (0.9 m)
<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Power consumption</b>	4.5 W
<b>Housing</b>	Aluminum die cast
<b>Housing color</b>	Light blue (RAL 5012)
<b>Front screen</b>	Glass
<b>Enclosure rating</b>	IP65 (DIN 40 050)
<b>Protection class</b>	III (VDE 0106/IEC 1010-1)
<b>Weight</b>	225 g, with connecting cable
<b>Dimensions (L x W x H)</b>	61 mm x 66 mm x 38 mm
<b>MTBF</b>	40,000 h

## Performance

<b>Readable code structures</b>	1D
<b>Bar code types</b>	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
<b>Print ratio</b>	2:1 ... 3:1
<b>No. of codes per scan</b>	1 ... 20 (Standard decoder) 1 ... 6 (SMART620)
<b>No. of codes per reading interval</b>	1 ... 50 (auto-discriminating)
<b>No. of characters per reading interval</b>	1,500 500 (for multiplexer function in CAN operation)
<b>No. of multiple readings</b>	1 ... 99

## Interfaces

<b>PROFINET</b>	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Function	PROFINET Single Port, PROFINET Dual Port
<b>EtherCAT®</b>	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
<b>Serial</b>	✓, RS-232, RS-422, RS-485
Function	Host, AUX
Data transmission rate	2,400 Baud ... 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
<b>CAN</b>	✓
Function	SICK CAN sensor network CSN (master/slave, multiplexer/server)
Data transmission rate	20 kbit/s ... 1 Mbit/s
<b>CANopen</b>	✓
Data transmission rate	20 kbit/s ... 1 Mbit/s
<b>PROFIBUS DP</b>	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
<b>DeviceNet™</b>	✓
Type of fieldbus integration	Optional, over external connection module CDM + CMF
<b>Digital inputs</b>	4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
<b>Digital outputs</b>	4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420)
<b>Reading pulse</b>	Digital inputs, non-powered, serial interface, auto pulse, CAN
<b>Optical indicators</b>	6 LEDs (Ready, Result, laser, Data, CAN, LNK TX)
<b>Acoustic indicators</b>	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
<b>Configuration software</b>	SOPAS ET

## Ambient data

<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
<b>Vibration resistance</b>	EN 60068-2-6 (1995)
<b>Shock resistance</b>	EN 60068-2-27 (1993)
<b>Ambient operating temperature</b>	0 °C ... +40 °C
<b>Storage temperature</b>	-20 °C ... +70 °C
<b>Permissible relative humidity</b>	90 %, Non-condensing

<b>Ambient light immunity</b>	2,000 lx, on bar code
<b>Bar code print contrast (PCS)</b>	≥ 60 %

### General notes

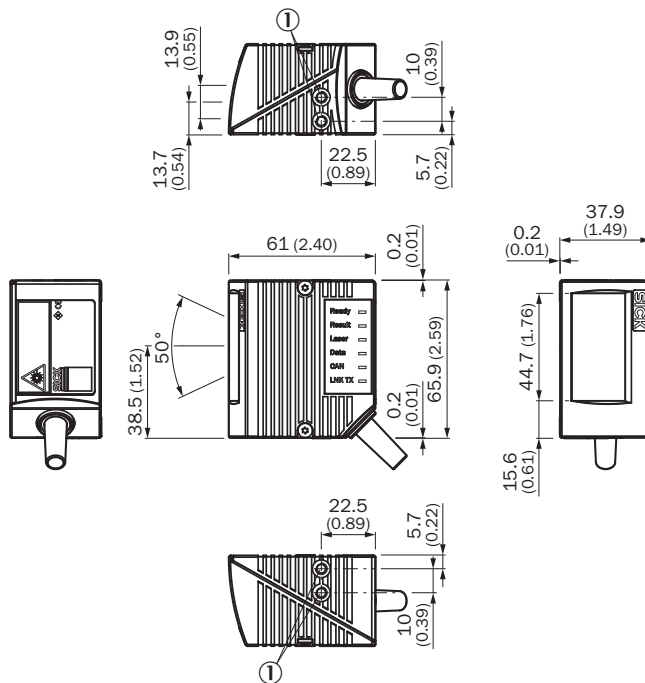
<b>Note on use</b>	For Ethernet connection please use an Ethernet version of CLV6xx
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### Classifications

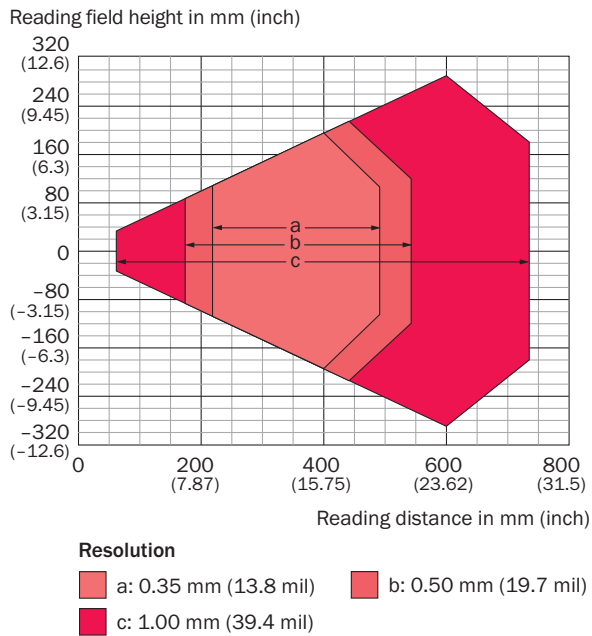
<b>ECl@ss 5.0</b>	27280102
<b>ECl@ss 5.1.4</b>	27280102
<b>ECl@ss 6.0</b>	27280102
<b>ECl@ss 6.2</b>	27280102
<b>ECl@ss 7.0</b>	27280102
<b>ECl@ss 8.0</b>	27280102
<b>ECl@ss 8.1</b>	27280102
<b>ECl@ss 9.0</b>	27280102
<b>ETIM 5.0</b>	EC002550
<b>ETIM 6.0</b>	EC002550
<b>UNSPSC 16.0901</b>	43211701

### Dimensional drawing (Dimensions in mm (inch))

CLV62x Standard, front






## Reading field diagram



## Recommended accessories

Other models and accessories → [www.sick.com/CLV62x](http://www.sick.com/CLV62x)

	Brief description	Type	Part no.
Mounting brackets and plates			
	Bracket with adapter board	Mounting bracket	2042902
Modules and gateways			
	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Modules			
	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256

## Recommended services

Additional services → [www.sick.com/CLV62x](http://www.sick.com/CLV62x)

	Type	Part no.
<b>Warranty extensions</b>		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Identification solutions, Vision, Distance sensors, Detection and ranging solutions</li> <li>• <b>Range of services:</b> The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase), Long-term protection for calculable lump sum.</li> <li>• <b>Duration:</b> Five-year warranty from date of purchase.</li> </ul>	Five-year extended warranty	1680671
<b>Performance check</b>		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Bar code scanners</li> <li>• <b>Range of services:</b> Inspection of defined functions, e.g., reading performance</li> <li>• <b>Documentation:</b> Documentation of reading performance, Creation of a performance check log</li> <li>• <b>Duration:</b> Additional work will be invoiced separately based on time spent</li> <li>• <b>Note:</b> The prices do not include expenses or costs for the travel time</li> </ul>	Performance check CLV4xx/CLV6xx	1682028
<b>Maintenance</b>		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Bar code scanners</li> <li>• <b>Range of services:</b> Inspection, analysis and restoring of defined functions, Inspection and adjustment of reading configuration, code configuration, data processing and network or interfaces</li> <li>• <b>Documentation:</b> Documentation of operating hours and archiving of parameters in a SICK database, Documentation of reading performance, Creation of a maintenance log</li> <li>• <b>Duration:</b> Additional work will be invoiced separately based on time spent</li> <li>• <b>Note:</b> The prices do not include expenses or costs for the travel time</li> </ul>	Maintenance CLV4xx/CLV6xx	1611420
<b>Training</b>		
<ul style="list-style-type: none"> <li>• <b>Product family group:</b> Bar code scanners</li> <li>• <b>Range of services:</b> SICK offers training courses for numerous target groups ranging from basic to expert levels, the training format and location can be worked out in collaboration with SICK</li> <li>• <b>Note:</b> A minimum and maximum number of participants is determined based on the training format, depending on the training format, content and location, a training course may take place over the course of one or more work days</li> <li>• <b>Duration:</b> The fixed price includes the specific training services agreed upon with the customer, the fixed price includes the work time required for the training services, the required work time depends on the range of services, Additional work will be invoiced separately based on time spent</li> <li>• <b>Travel expenses:</b> The prices include costs for the travel time and expenses travel costs, such as flight or hotel expenses, are not included</li> </ul>	Training for the CLV6 series	1612231
<b>Commissioning</b>		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Bar code scanners</li> <li>• <b>Range of services:</b> Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as verification tests, Setup of previously defined functions of reading configuration, code configuration, data processing and network, interfaces or inputs and outputs</li> <li>• <b>Documentation:</b> Archiving of product parameters in a SICK database, Documentation of reading performance, Creation of a commissioning log</li> <li>• <b>Duration:</b> Additional work will be invoiced separately based on time spent</li> <li>• <b>Note:</b> The prices do not include expenses or costs for the travel time</li> </ul>	Commissioning CLV61x ... CLV64x	1681925

## 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](http://www.sick.com)