



# 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>MTBF</b>               | 40,000 h                                                    |
| <b>Laser class</b>        | 2 (EN 60825-1 (A2:2001-03), IEC 60825-1 : 2007-03, Ed. 2.0) |
| <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.

## Performance

|                                               |                                                                                                                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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)<br>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<br>500 (for multiplexer function in CAN operation)                                                                                                            |
| <b>No. of multiple readings</b>               | 1 ... 99                                                                                                                                                            |

## Interfaces

|                 |   |
|-----------------|---|
| <b>PROFINET</b> | ✓ |
|-----------------|---|

|                               |                              |                                                                                              |
|-------------------------------|------------------------------|----------------------------------------------------------------------------------------------|
|                               | Function                     | PROFINET Dual Port (optional via external connection module CDF600-2)                        |
| <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 (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 via external connection module CDM + CMF                                            |
| <b>Switching inputs</b>       |                              | 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)  |
| <b>Switching outputs</b>      |                              | 4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) |
| <b>Reading pulse</b>          |                              | Switching 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                                                                                     |

## Mechanics/electronics

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>Electrical connection</b>  | 1 x 15-pin D-Sub HD male connector (0.9 m) |
| <b>Operating 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                      |

## 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

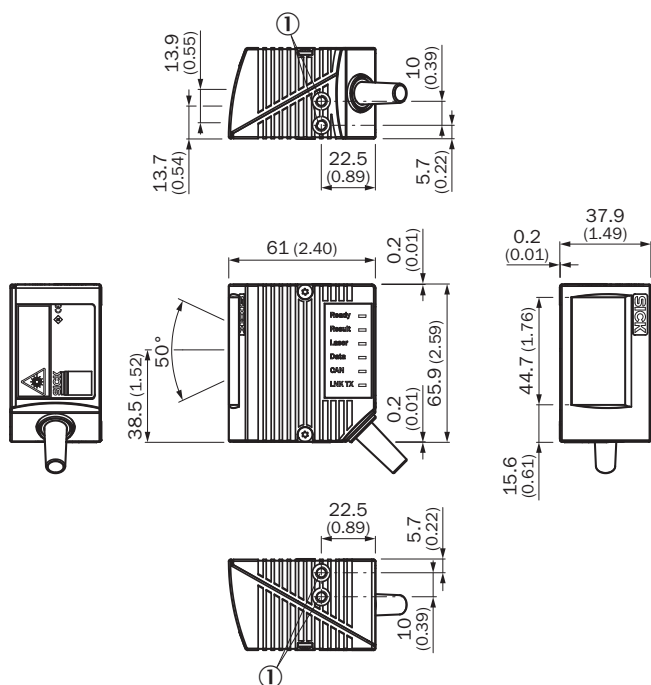
|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| <b>Note on use</b> | For Ethernet connection please use an Ethernet version of CLV6xx |
|--------------------|------------------------------------------------------------------|

### 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 |

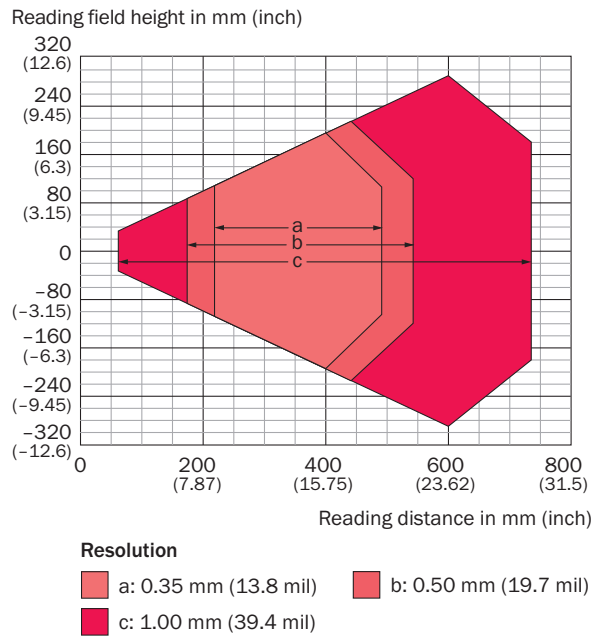
### Dimensional drawing (Dimensions in mm (inch))

CLV62x Standard, front



① M5

## 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                                                                             |                                                                         |                  |          |
|                                                                                     | Small connection module for one sensor, 4 cable glands, base for CMC600 | CDB620-001       | 1042256  |
|                                                                                     | Modular connection module for one sensor                                | CDM420-0001      | 1025362  |

## 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)