



## Bar code scanners CLV42x / CLV422 / High Density

CLV422-0010



**Model Name** > [CLV422-0010](#)  
**Part No.** > [1022548](#)



#### At a glance

- Easy to configure
- Small housing
- Standard, long-range and high-density versions available
- Front or side reading window versions
- CAN bus compatible
- High scanning frequency of up to 1,200 Hz
- Compatible with optional fieldbus gateways

#### Your benefits

- Accurate code identification even at high speeds
- Easily integrated into a variety of networks, providing flexibility
- Small size and simple setup enables fast installation, even in compact machines
- A variety of diagnostic options ensures easy access for configuration and troubleshooting
- Excellent price/performance ratio
- Parameter cloning plug ensures very short MTTR

**The product is currently being phased out and can be ordered until September 30, 2013. A replacement product can be found under "Replacement Products"**



#### Features

|                                        |                           |
|----------------------------------------|---------------------------|
| Version:                               | High Density              |
| Connection type:                       | Standard                  |
| Reading field:                         | Front                     |
| Scanner design:                        | Line scanner              |
| Focus:                                 | Fixed focus               |
| Light source:                          | Visible red light         |
| MTBF:                                  | 20,000 h                  |
| Laser class:                           | 2 (DIN EN 60825-1)        |
| Field of view:                         | ≤ 50 °                    |
| Code resolution:                       | 0.15 mm ... 0.5 mm        |
| Reading distance (at code resolution): | 55 mm ... 200 mm (0.5 mm) |
| Scanning frequency:                    | 400 Hz ... 1,200 Hz       |

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## Performance

|                                         |                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Bar code types:                         | Interleaved 2 of 5, All current code types, Codabar, Code 128, Code 39, Code 93, GS1-128/EAN 128, Pharmacode, UPC/GTIN/EAN |
| Print ratio:                            | 2:1 ... 3:1                                                                                                                |
| No. of codes per scan:                  | 1 ... 3                                                                                                                    |
| No. of codes per reading interval:      | 1 ... 10 (auto-discriminating)                                                                                             |
| No. of characters per reading interval: | 100                                                                                                                        |
| No. of multiple readings:               | 1 ... 99                                                                                                                   |

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## Interfaces

|                                                       |                                                                                              |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Serial (RS-232, RS-422/485):                          | ✓                                                                                            |
| Remark (Serial (RS-232, RS-422/485)):                 | AUX (only RS-232)                                                                            |
| Function (Serial (RS-232, RS-422/485)):               | Host, AUX                                                                                    |
| Data transmission rate (Serial (RS-232, RS-422/485)): | 300 Baud ... 57,600 Baud, AUX: 9,600 Baud                                                    |
| Ethernet:                                             | ✓                                                                                            |
| Remark (Ethernet):                                    | Optional via external connection module (CDM + CMF)                                          |
| CAN bus:                                              | ✓                                                                                            |
| Function (CAN bus):                                   | SICK CAN sensor network (Master/Slave, Multiplexer)                                          |
| Protocol (CAN bus):                                   | CANopen, CSN (SICK CAN Sensor Network)                                                       |
| Data transmission rate (CAN bus):                     | 20 kbit/s ... 1 Mbit/s                                                                       |
| PROFIBUS DP:                                          | ✓                                                                                            |
| Remark (PROFIBUS DP):                                 | Optional via external connection module (CDM + CMF)                                          |
| EtherCAT:                                             | -                                                                                            |
| DeviceNet:                                            | ✓                                                                                            |
| Remark (DeviceNet):                                   | Optional via external connection module (CDM + CMF)                                          |
| Switching inputs:                                     | 2 ("Sensor 1", "Sensor 2")                                                                   |
| Switching outputs:                                    | 2 ("Result 1", "Result 2")                                                                   |
| Reading pulse:                                        | Non-powered, Reflector polling, "Sensor 1" switching input, Serial interface                 |
| Optical indicators:                                   | 4 LEDs (function indicator)                                                                  |
| Acoustic indicators:                                  | Beeper/buzzer (can be switched off, can be allocated as a result status indication function) |

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## Mechanics/electronics

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Electrical connection: | 1 15-pin D-Sub HD plug (0.9 m)                                      |
| Operating voltage:     | 10 V DC ... 30 V DC <sup>1)</sup>                                   |
| Power consumption:     | 3.5 W                                                               |
| Housing:               | Die-cast zinc, does not contain paint wetting impairment substances |
| Housing color:         | Light blue (RAL 5012)                                               |
| Enclosure rating:      | IP 65 (DIN 40 050)                                                  |
| Protection class:      | III (VDE 0106)                                                      |
| Weight:                | 250 g, with connecting cable                                        |
| Dimensions:            | 59 mm x 62.7 mm x 35.2 mm                                           |

<sup>1)</sup> UL certified for use with a Class 2 mains supply unit (checked to UL 1310)

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## Ambient data

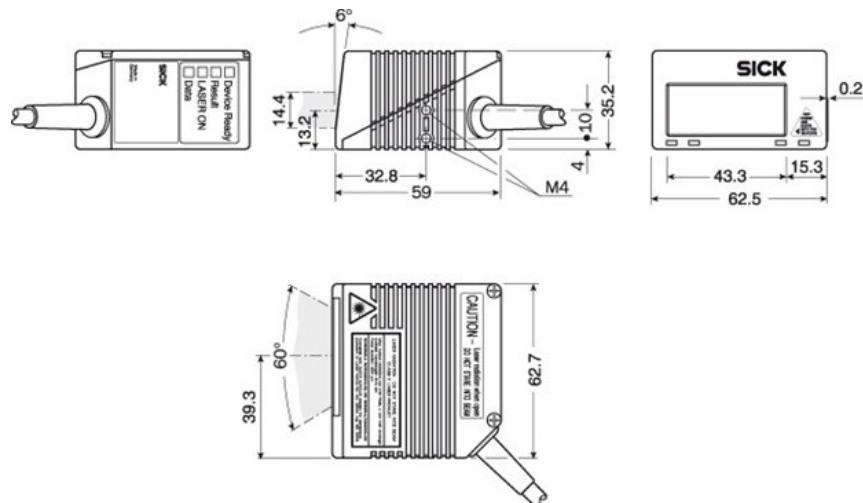
|                                      |                           |
|--------------------------------------|---------------------------|
| Electromagnetic compatibility (EMC): | (EN 61000-6-2) (EN 55011) |
| Vibration resistance:                | (IEC 68-2-6 Test FC)      |
| Shock resistance:                    | (IEC 68-2-27 Test EA)     |
| Ambient operating temperature:       | 0 °C ... 40 °C            |

|                                |                        |
|--------------------------------|------------------------|
| Storage temperature:           | -20 °C ... 70 °C       |
| Permissible relative humidity: | ± 90 %, non-condensing |
| Ambient light safety:          | 2,000 lx, on bar code  |
| Bar code print contrast (PCS): | ≥ 60 %                 |

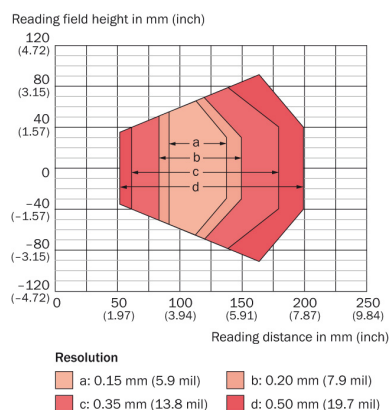
## General notes

Life cycle phase: Available until September 30th, 2013

## Dimensional drawing



## Reading field diagram



#### **Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

#### **Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

#### **Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

#### **Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

#### **Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

#### **China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

#### **Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

#### **Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

#### **España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

#### **France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

#### **Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

#### **India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

#### **Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

#### **Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

#### **Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

#### **Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

#### **Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

#### **Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

#### **Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

#### **Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

#### **România**

Phone +40 356 171 120  
E-Mail office@sick.ro

#### **Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

#### **Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

#### **Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

#### **Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

#### **South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

#### **South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

#### **Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

#### **Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

#### **Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

#### **Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

#### **United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

#### **USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)