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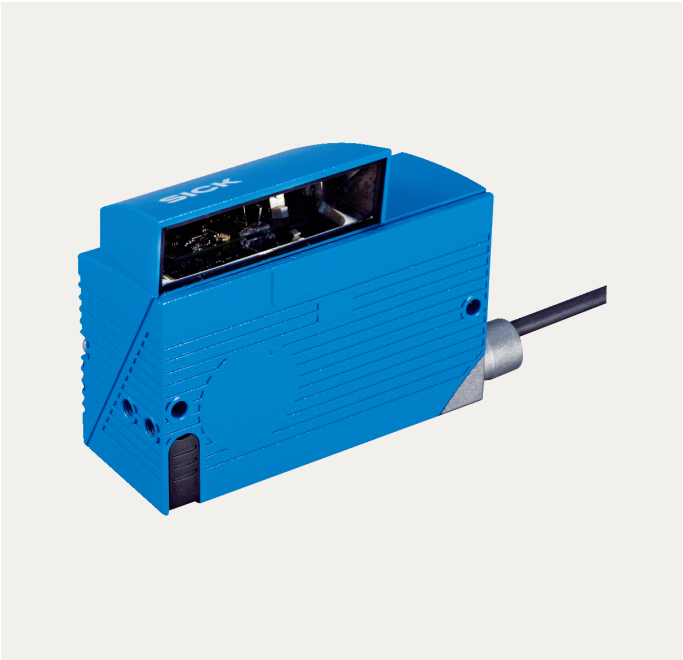
DATA SHEET

# CLV615-D2410F0

CLV61x
Fixed mount barcode scanners

SICK Sensor Intelligence



# FIXED MOUNT BARCODE SCANNERS

# CLV615-D2410F0

## ORDERING INFORMATION

| Type | part no. |
|---|---|
| CLV615-D2410F0 | 1078175 |

Further device versions and accessories at www.sick.com/CLV61x

## DETAILED TECHNICAL DATA

### FEATURES

| | |
|---|---|
| Version | Long Range |
| Connection type | Cable |
| Reading field | Side (105°) |
| Sensor type | Line scanner |
| Optical focus | Fixed focus |
| Light source | Light spot, laser, Visible, Red, 655 nm |
| 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 | 25 mm ... 330 mm [1] |
| Scanning frequency | 400 Hz ... 1,000 Hz |
| Code resolution | 0.35 mm ... 0.5 mm |
| Heating | ✓ |
| Cold storage applications | ✓ |

[1] For details see reading field diagram.

### MECHANICS/ELECTRONICS

| | |
|---|---|
| Connection type | 1 x “POWER” connection, 4-pin M12 plug (0.9 m), A-coded<br>1 x “PROFINET P1” connection, 4-pin M12 female connector, D-coded<br>1 x “PROFINET P2” connection, 4-pin M12 socket, D-coded<br>1 x Micro USB female connector, type B |

[1] At 25 °C.

| | |
|---|---|
| Supply voltage | 18 V DC ... 30 V DC |
| Power consumption | 15 W |
| Housing material | Aluminum die cast |
| Housing color | Light blue (RAL 5012) |
| Window material | Glass |
| Enclosure rating | IP65 (DIN 40 050) |
| Protection class | III (VDE 0106/IEC 1010-1) |
| Weight | 345.8 g |
| Dimensions (L x W x H) | 80 mm x 96 mm x 38 mm |
| MTBF | 100,000 h |
| MTTF | 40,000 h (Laser diode) [1] |

[1] At 25 °C.

## PERFORMANCE

| | |
|---|---|
| Readable code structures | 1D codes |
| Bar code types | All current code types, Code 39, Code 128, Code 93, Codabar, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode |
| Code printing process | Label (printed codes) |
| Print ratio | 2:1 ... 3:1 |
| No. of codes per scan | 1 ... 10 (Standard decoder)<br>1 ... 6 (SMART620) |
| No. of codes per reading interval | 1 ... 50 (auto-discriminating) |
| No. of characters per reading interval | 1,500 |
| No. of multiple readings | 1 ... 99 |

## INTERFACES

| | |
|---|---|
| PROFINET | ✓ |
| Function | PROFINET Single Port, PROFINET Dual Port |
| Data transmission rate | 2-port Ethernet in accordance with IEEE 802.3 (baud rate 100 MBit/s, full-duplex transmission, 2-port switch, auto-negotiation, auto-crossover). Maximum data length is limited by the mode of communication (fragmentation protocol) to 4,000 bytes. |
| USB | ✓ |
| Function | Service interface |
| Digital inputs | 1 (via PROFINET Ctrl bits) |
| Digital outputs | 4 (via PROFINET Ctrl bits) |
| Reading pulse | Non-powered, auto pulse, Fieldbus input, command |
| Optical indicators | 5 LEDs |
| Configuration software | SOPAS ET |

## AMBIENT DATA

| | |
|---|---|
| Electromagnetic compatibility (EMC) | EN 61000-6-4 (2007-01) + A1 (2011) / EN 61000-6-2:2005-08 |
| Vibration resistance | EN 60068-2-6:2008-02 |
| Shock resistance | EN 60068-2-27:2009-05 |
| Ambient operating temperature | –35 °C ... +40 °C |
| Storage temperature | –20 °C ... +70 °C |
| Relative humidity | 90 %, Non-condensing |
| Ambient light immunity | 2,000 lx, on barcode |
| Bar code print contrast (PCS) | ≥ 60 % |

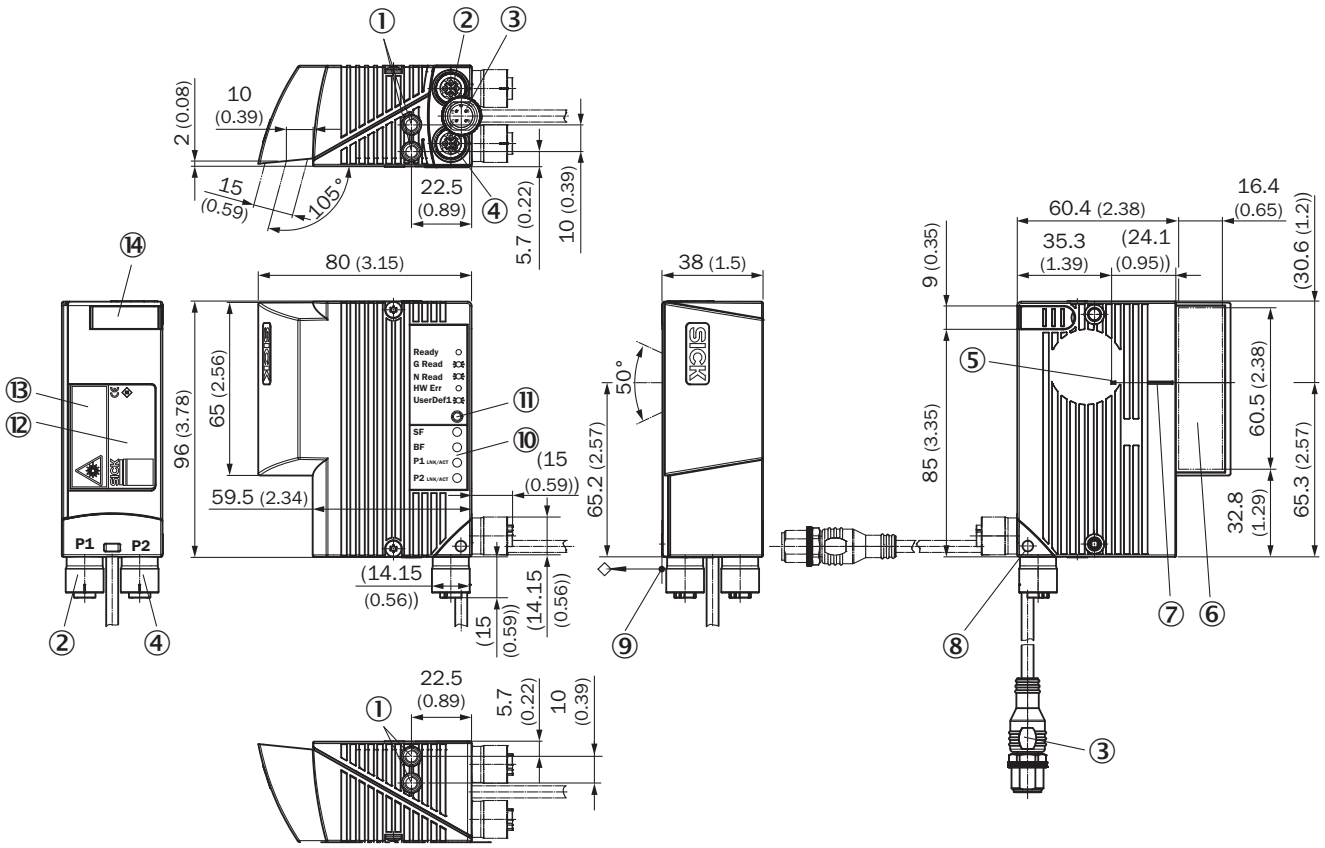
## GENERAL NOTES

| | |
|---|---|
| Items supplied | Single scanner |

## CERTIFICATES

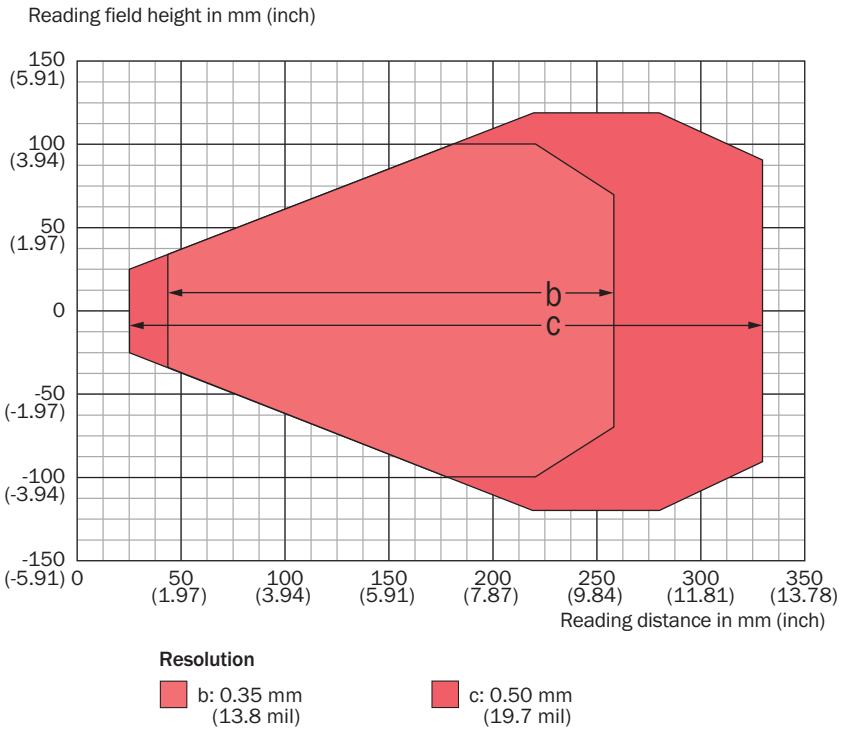
| | |
|---|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| China RoHS | ✓ |
| cULus certificate | ✓ |
| Profinet certificate | ✓ |
| Laser safety (IEC 60825-1) declaration of manufacturer | ✓ |
| Information according to Art. 3 of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

**DIMENSIONAL DRAWING**




Dimensions in mm (inch)
① blind hole thread M5, 5 mm deep (2 x), for mounting
② P1 (Port 1) connection, 4-pin M12 female connector, D-coded
③ acble (0.9 m) with POWER connection, 4-pin M12 male connector, A-coded
④ P2 (Port 2) connection, 4-pin M12 female connector, D-coded
⑤ internal impact point: rotation point of the variable direction laser beam
⑥ reading window, side orientation
⑦ central position of the deflected laser beam in the V-shaped aperture angle
⑧ swivel connector unit (max 180° rotation angle from end position to end position)
⑨ reference point for reading distance (from housing edge to object)
⑩ LED (4 x), status indicator
⑪ RGB-LED (1 x), status display with signal color allocation for events
⑫ type label
⑬ laser warning label
⑭ cover for USB port, 4-pin female connector, Micro B type

## READING FIELD DIAGRAM




Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1078175

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Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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