# CLV615-I2150

## CLV61x

**FIXED MOUNT BARCODE SCANNERS**

**SICK**
Sensor Intelligence.

# CLV615-I2150 | CLV61x

## FIXED MOUNT BARCODE SCANNERS

## Ordering information

| Type | part no. |
|---|---|
| CLV615-I2150 | 1118927 |

Other models and accessories ➜ www.sick.com/CLV61x

## Detailed technical data

### Features

| | |
|---|---|
| **Version** | Long Range |
| **Connection type** | IO-Link |
| **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 |

[1] For details see reading field diagram.

### Mechanics/electronics

| | |
|---|---|
| **Connection type** | 1 x IO-Link and POWER" connection, 5-pin M12 male connector, A-coded<br>1 x "Sensor 1" connection, 5-pin M12 female connector, A-coded<br>1 x Micro USB female connector, type B |
| **Supply voltage** | 18 V DC ... 30 V DC |
| **Power consumption** | 3.2 W |
| **Housing material** | Aluminum die cast |
| **Housing color** | Light blue (RAL 5012) |
| **Window material** | Glass |
| **Enclosure rating** | IP65 (EN 60529:1991 + A1:2002 + A2:2013 + A3:2016) |
| **Protection class** | III (EN 60950-1/EN 62368-1) |
| **Weight** | 260 g |

[1] At 25 °C.

| 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 |
| Code printing process | Label (printed codes) |
| Print ratio | 2:1 ... 3:1 |
| No. of codes per scan | 1 |
| No. of codes per reading interval | 1 |
| No. of characters per reading interval | 31 |
| No. of multiple readings | 1 ... 99 |

## Interfaces

| IO-Link | ✓ , V1.1 |
|---|---|
| Function | IO-Link V1.1 as per the IEC 61131-9 standard, Host: Process data, service data (parameterization, diagnostics), data storage |
| Data transmission rate | COM3 (230,4 kBaud) |
| USB | ✓ |
| Function | Service interface |
| Digital inputs | 2 (1 x "Sensor 1", 1 x via IO-Link Ctrl bits) |
| Digital outputs | 1 (Via IO-Link process data output (ctrl. bits)) |
| Reading pulse | IO-Link (default), Free (auto cycle), Digital input for local read cycle sensor |
| Optical indicators | 2 LEDs |
| Configuration software | SOPAS ET |

## Ambient data

| Electromagnetic compatibility (EMC) | EN 61000-6-4: 2019 / EN 61000-6-2: 2019 |
|---|---|
| Vibration resistance | EN 60068-2-6:2008-02 |
| Shock resistance | EN 60068-2-27:2009-05 |
| Ambient operating temperature | 0 °C ... +40 °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

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

## Certificates

| EU declaration of conformity | ✓ |
|---|---|
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |

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

## Classifications

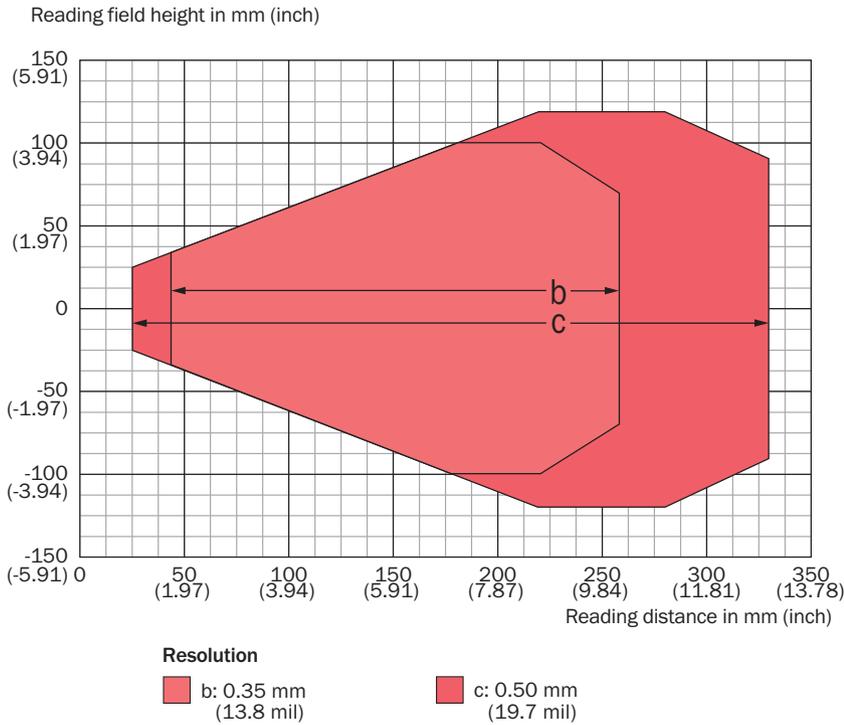| | |
|---|---|
| **ECLASS 5.0** | 27280102 |
| **ECLASS 5.1.4** | 27280102 |
| **ECLASS 6.0** | 27280102 |
| **ECLASS 6.2** | 27280102 |
| **ECLASS 7.0** | 27280102 |
| **ECLASS 8.0** | 27280102 |
| **ECLASS 8.1** | 27280102 |
| **ECLASS 9.0** | 27280102 |
| **ECLASS 10.0** | 27280102 |
| **ECLASS 11.0** | 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 |

## Dimensional drawing
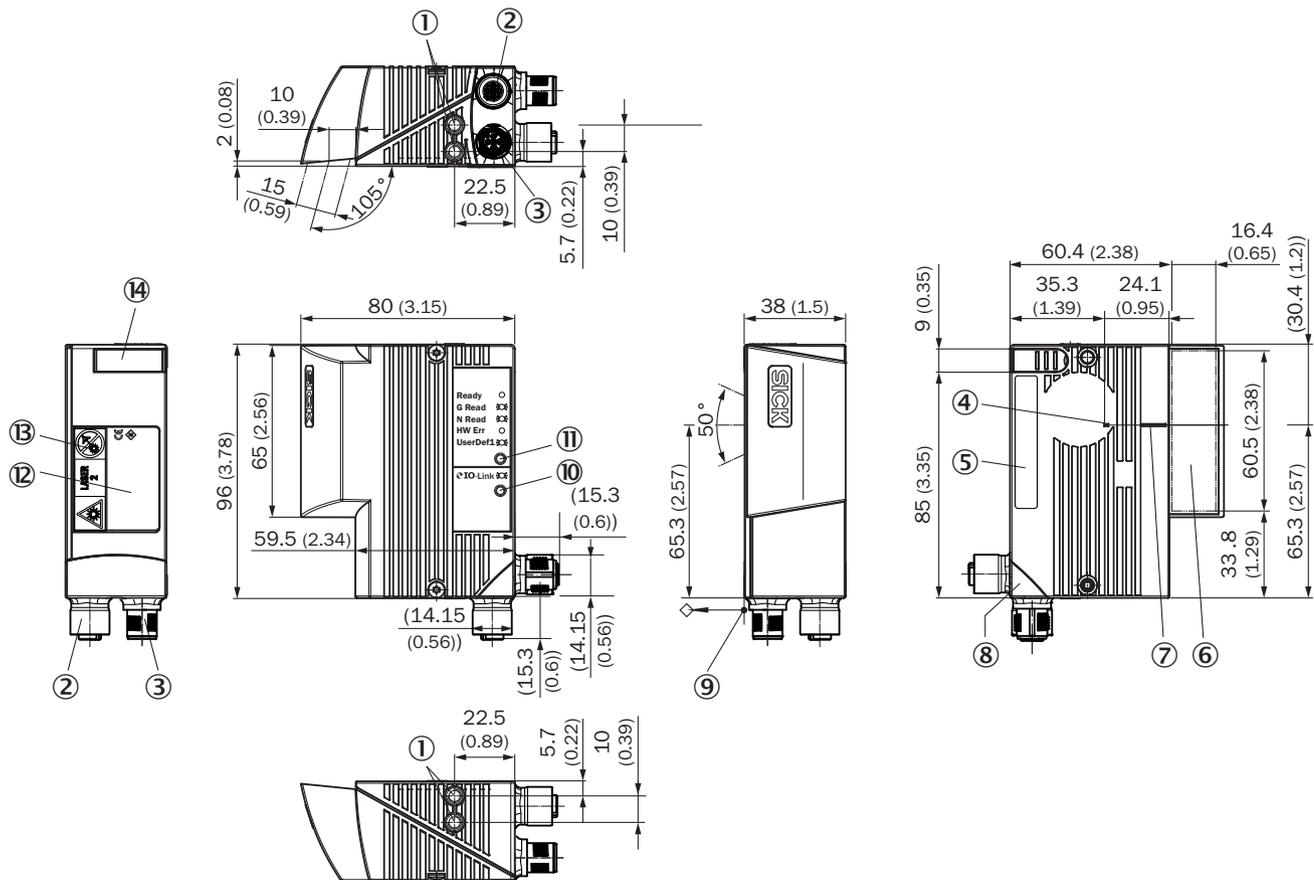


Dimensions in mm (inch)
① blind hole thread M5, 5 mm deep (2 x), for mounting
② "Sensor 1" connection, female connector, M12, 5-pin, A-coded
③ "IO-Link" connection, male connector, M12, 5-pin, A-coded
④ internal impact point: rotation point of the variable direction laser beam
⑤ Additional plate for type label
⑥ Viewing 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 "IO-Link" status display (RGB LED)
⑪ "Sensor" status display (RGB LED), with signal color assignment for events
⑫ type label
⑬ laser warning label
⑭ Cover for "USB" port (female connector, 5-pin, Micro-B type). The interface can only be used by SICK Service.

## Reading field diagram

Reading field height in mm (inch)



Reading distance in mm (inch)

**Resolution**

| | |
|---|---|
| b: 0.35 mm (13.8 mil) | c: 0.50 mm (19.7 mil) |

## Recommended accessories

Other models and accessories ➔ www.sick.com/CLV61x

| | Brief description | Type | part no. |
|---|---|---|---|
| **Mounting systems** | | | |
| | • **Description:** Hanger-shaped mounting bracket<br>• **Items supplied:** Mounting hardware included | Mounting bracket | 2042800 |
| **connectors and cables** | | | |
| | • **Description:** Sensor/actuator cable, unshielded<br>• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded<br>• **Connection type head B:** Male connector, M12, 5-pin, straight, A-coded<br>• **Signal type:** Sensor/actuator cable<br>• **Cable:** 2 m, 5-wire, PUR, halogen-free<br>• **Application:** Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation | YF2A15-020UB5M2A15 | 2096009 |
| | • **Description:** Sensor/actuator cable, unshielded<br>• **Connection type head A:** Female connector, M8, 4-pin, straight, A-coded<br>• **Connection type head B:** Male connector, M12, 4-pin, straight, A-coded<br>• **Signal type:** Sensor/actuator cable<br>• **Cable:** 0.6 m, 4-wire, PUR, halogen-free<br>• **Application:** Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation | YF8U14-C60UA3M2A14 | 2096135 |
| | • **Description:** Sensor/actuator cable, unshielded<br>• **Connection type head A:** Female connector, M8, 4-pin, straight, A-coded<br>• **Connection type head B:** Male connector, M12, 4-pin, straight, A-coded<br>• **Signal type:** Sensor/actuator cable<br>• **Cable:** 1 m, 4-wire, PUR, halogen-free<br>• **Application:** Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation | YF8U14-010UA3M2A14 | 2145835 |

| | Brief description | Type | part no. |
|---|---|---|---|
| **network devices** | | | |
| | | IOLA2US-01101 (SiLink2 Master) | 1061790 |
| **Photoelectric sensors** | | | |
| | • **Sensing range max.:** 5 mm … 110 mm<br>• **Functional principle:** Photoelectric proximity sensor<br>• **Connection type:** Male connector M8, 4-pin<br>• **Type of light:** Visible red light<br>• **Adjustment:** Potentiometer<br>• **Housing:** Rectangular | GTE6-P4201S57 | 1075634 |

## 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:

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