

SICK.COM



DATA SHEET

CLV615-I2150

CLV61x
Fixed mount barcode scanners

SICK Sensor Intelligence

FIXED MOUNT BARCODE SCANNERS

CLV615-I2150

ORDERING INFORMATION

Type	part no.
CLV615-I2150	1118927

Further device versions and accessories at 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 ²⁾ connection, 5-pin M12 male connector, A-coded 1 x "Sensor 1" connection, 5-pin M12 female connector, A-coded 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

²⁾ At 25 °C.

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
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	Function	✓, V1.1 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
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
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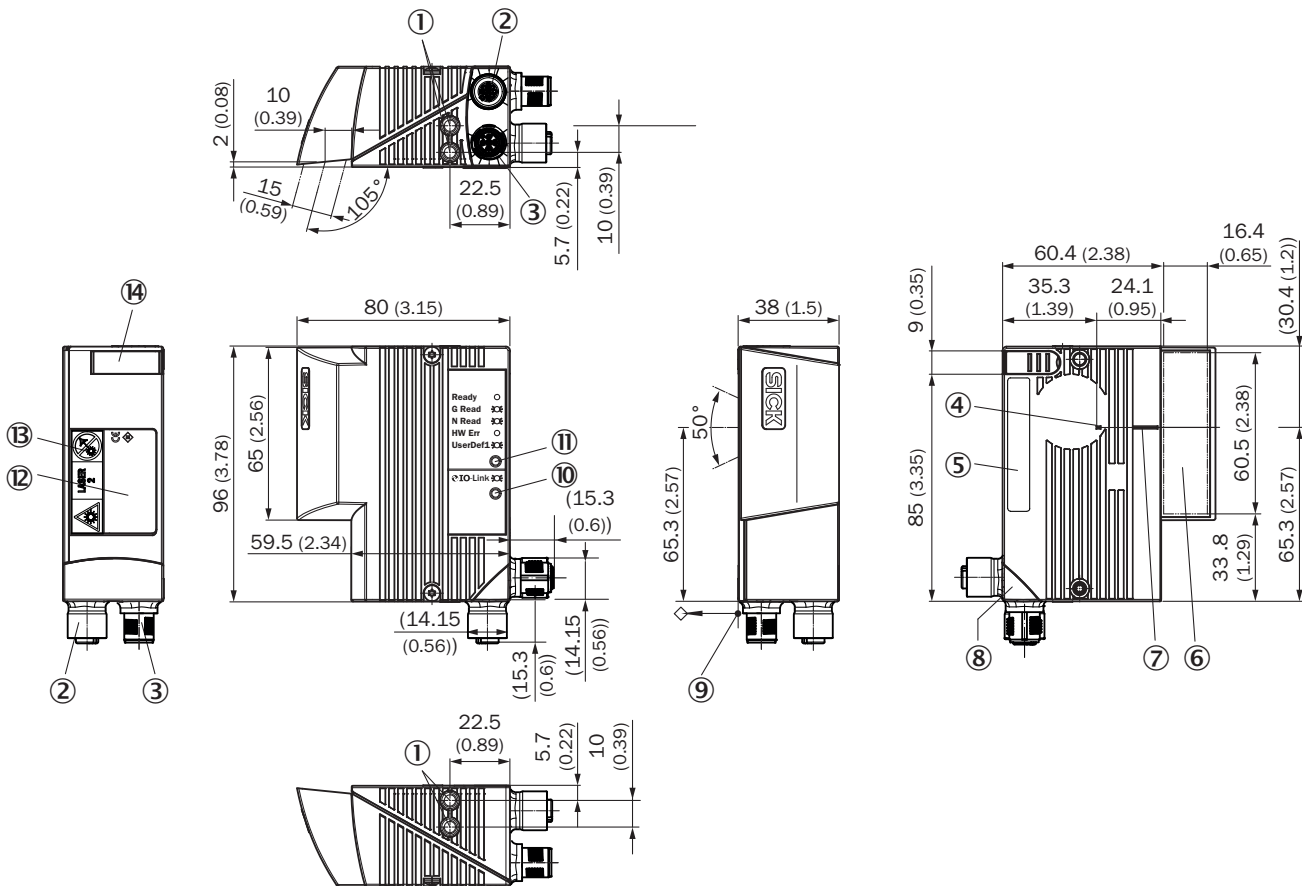
CERTIFICATES

EU declaration of conformity	✓
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FIXED MOUNT BARCODE SCANNERS - CLV615-I2150

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)	✓

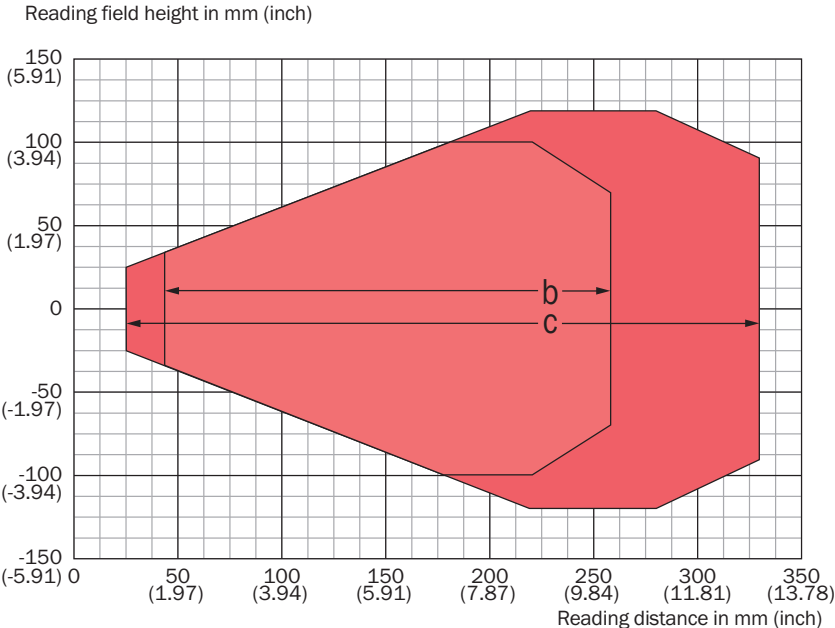
DIMENSIONAL DRAWING



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



Resolution

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

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/1118927



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

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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