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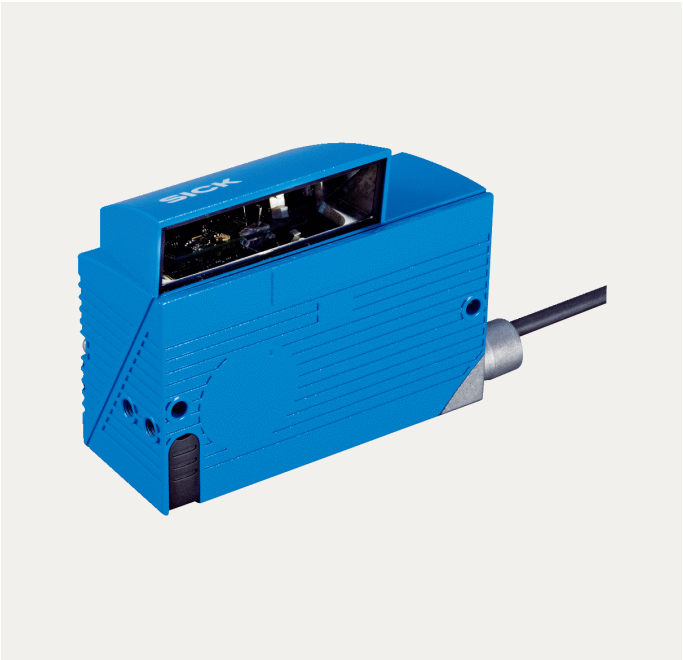


DATA SHEET

CLV618-Dxxxx

CLV61x
Fixed mount barcode scanners

SICK Sensor Intelligence



FIXED MOUNT BARCODE SCANNERS

CLV618-Dxxxx

ORDERING INFORMATION

Type	part no.
CLV618-Dxxxx	On request

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

DETAILED TECHNICAL DATA

FEATURES

Version	Long Range
Technology	Laser-based code reading
Connection type	Cable
Reading field	Side (105°)
Sensor type	Line scanner
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	44 mm ... 683 mm [1]
Scanning frequency	400 Hz ... 1,000 Hz
Code resolution	0.35 mm ... 1 mm

[1] For details see reading field diagram.

MECHANICS/ELECTRONICS

Connection type	1 x “POWER” connection, 5-pin M12 plug, A-coded 1 x “ETHERCAT P1” connection, 4-pin M12 female connector, D-coded 1 x “ETHERCAT P2” connection, 4-pin M12 socket, D-coded 1 x Micro USB female connector, type B
Supply voltage	10 V DC ... 30 V DC
Power consumption	5 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)

[1] At 25 °C.

Weight	+ 310.5 g
Dimensions (L x W x H)	80 mm x 96 mm x 38 mm
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) 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

EtherCAT®	✓
Function	EtherCAT Dual Port
Data transmission rate	2-port Ethernet in accordance with IEEE 802.3 (baud rate 100 Mbit/s, full-duplex transmission)
USB	✓
Function	Service interface
Reading pulse	Non-powered, auto pulse, Fieldbus input, command
Optical indicators	5 LEDs
Configuration software	SOPAS ET

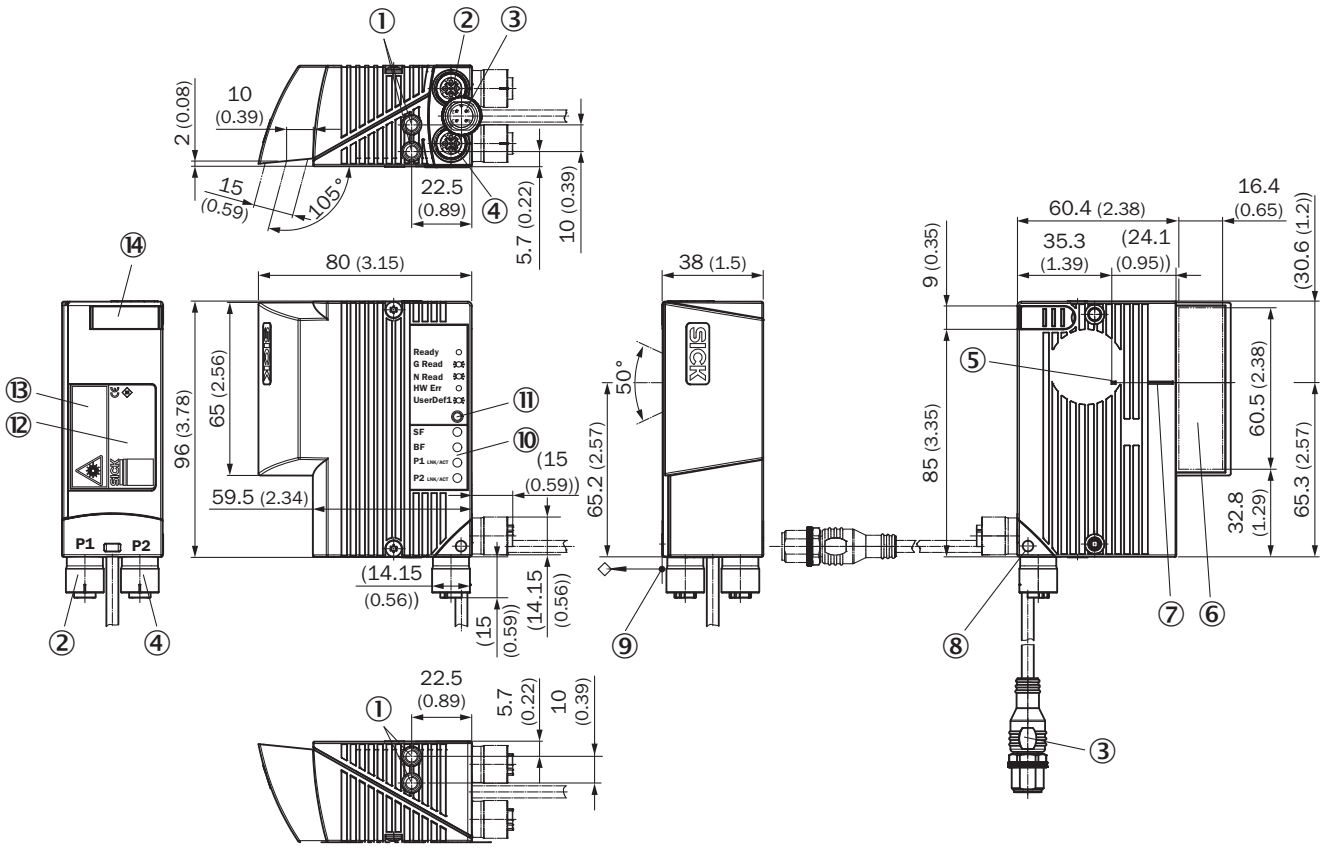
AMBIENT DATA

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	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

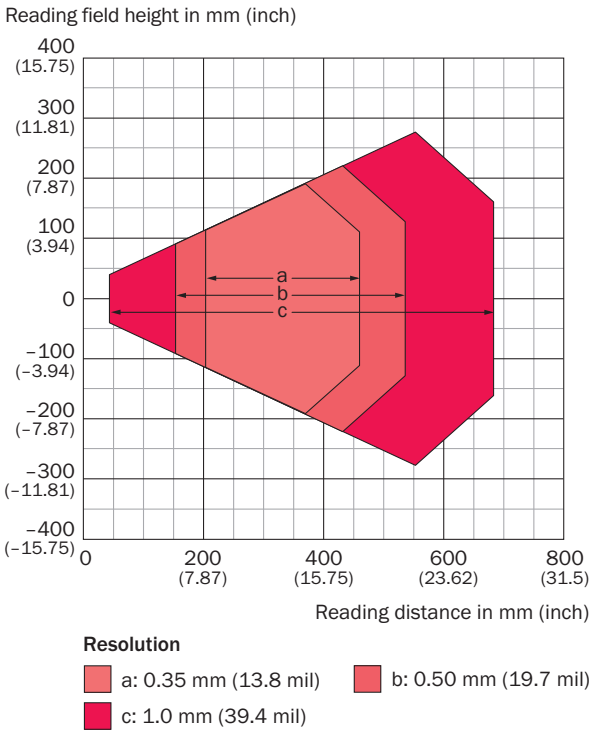
Items supplied	Single scanner

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/CLV61x

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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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