

CLV618-D1520 CLV61x

FIXED MOUNT BARCODE SCANNERS





Illustration may differ

Ordering information

Туре	Part no.
CLV618-D1520	1075152

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



Detailed technical data

Features

Version	Long Range
Connection type	Cable
Reading field	Front
Sensor type	Raster scanner
Optical focus	Fixed focus
Light source	Light spot, laser, Visible, Red, 655 nm
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	58 mm 705 mm ¹⁾
Scanning frequency	400 Hz 1,000 Hz
Code resolution	0.35 mm 1 mm
Raster height, number of lines, at distance	15 mm, 8, 200 mm

 $^{^{1)}}$ For details see reading field diagram.

Mechanics/electronics

Connection type	1 x "POWER" connection, 5-pin M12 plug, A-coded 1 x "PROFINET P1" connection, 4-pin M12 female connector, D-coded 1 x "PROFINET 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	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	290.5 g

¹⁾ At 25 °C.

Dimensions (L x W x H)	61 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 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

PROFINET	√
Function	PROFINET Single Port, PROFINET Dual Port Service interface
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.
Digital inputs	2 (1 x "Sensor 1", 1 x via PROFINET Ctrl bits)
Digital outputs	4 (via PROFINET Ctrl bits)
Reading pulse	Non-powered
Optical indicators	5 LEDs
Configuration software	SOPAS ET

Ambient data

7 11 11 10 11 11 11 11 11 11 11 11 11 11	
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
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on barcode
Bar code print contrast (PCS)	≥ 60 %

Classifications

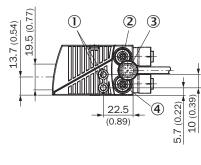
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102

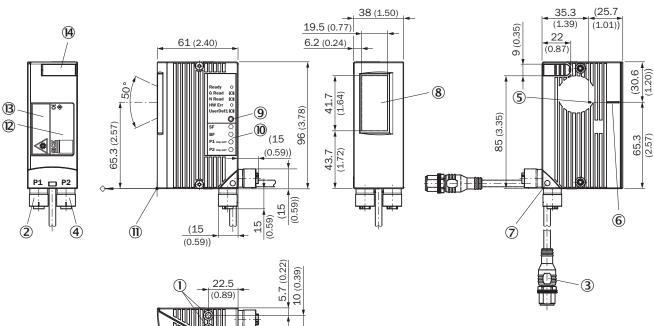
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FIXED MOUNT BARCODE SCANNERS

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

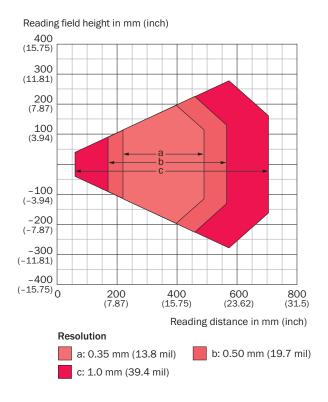
Dimensional drawing (Dimensions in mm (inch))





- \bigcirc 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, 5-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
- ® Reading window, side orientation
- ⑦ Central position of the deflected laser beam in the V-shaped aperture angle
- Swivel connector unit (max 180° rotation angle from end position to end position)
- Reference point for reading distance (from housing edge to object)
- @ LED (4 x), status indicator
- 1 RGB-LED (1 x), status display with signal color allocation for events
- 1 Type label
- 3 Laser warning label
- Cover for USB port, 4-pin female connector, Micro B type

Reading field diagram



Recommended accessories

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

	Brief description	Туре	Part no.
Distributors			
	• Note: Male connector M12, 4-pin, straight, A-coded to 2 x female connector M12, 5-pin, straight, A-coded	T-junctions	6058934
Mounting brad	ckets and plates		
	Hanger-shaped mounting bracket, mounting hardware included	Mounting bracket	2042800
THE CALL	Mounting bracket (simple bracket), mounting hardware included	Mounting bracket	2020410
Plug connectors and cables			
App	 Connection type head A: Female connector, M12 Signal type: Power Description: Power, AS-i clip for connection on black Actuator Sensor Interface flat cable 	Actuator Sensor Interface, M12	6022472

	Brief description	Туре	Part no.
Terminal and alignment brackets			
	Rod clamp for outer diameter of 12 20 mm, mounting hardware included	Rod clamp	2042801
Others			
100	 Connection type head A: Male connector, USB-A Connection type head B: Male connector, Micro-B Signal type: USB 2.0 Cable: 2 m Description: USB 2.0, unshielded 	USB cable	6036106
	 Connection type head A: Flying leads Connection type head B: Flying leads Signal type: Power Cable: 2-wire Description: Power, unshielded, Black Actuator Sensor Interface flat cable for looping in the power supply to 4Dpro Ethernet sensors Note: For use with connection clip 6022472 Items supplied: By the meter 	Actuator Sensor Interface, LTGE-MW	6022463
To the	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Male connector, M12, 4-pin, straight, A-coded Signal type: Power Cable: 2 m, PUR Description: Power, silicone-free, free of paint wetting impairment substances, shielded, For connecting to black AS-i flat ribbon cable for supplying power to CLV61x Dual Port Note: For connecting a CLV61x Dual Port sensor to a connection chip (part no. 6022472) and flat cable (part no. 6022463) 	YX2A24- 020UA4F2A24	6060279

Recommended services

Additional services → www.sick.com/CLV61x

	Туре	Part no.
Performance check		
 Product area: Fixed mount barcode scanners Range of services: Inspection of defined functions, e.g., reading performance Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Performance check CLV4xx/CLV6xx	1682028
Commissioning		
 Product area: Fixed mount barcode scanners Range of services: Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as tests, Setup of previously defined functions of reading configuration, code configuration, data processing and network, interfaces or inputs and outputs Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning CLV61x CLV64x	1681925
Extended warranty		
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

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."

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