SICK.COM

DATA SHEET

CLV410-1010

CLV41x
Fixed mount barcode scanners

SICK Sensor Intelligence

FIXED MOUNT BARCODE SCANNERS

CLV410-1010

ORDERING INFORMATION

Type	part no.
CLV410-1010	1015427

Further device versions and accessories at www.sick.com/CLV41x

DETAILED TECHNICAL DATA

FEATURES

Version	Mid Range
Connection type	Standard
Reading field	Front
Scanner design	Raster scanner
Light source	Visible red light (laser, 670 nm)
Laser class	2 (DIN EN 60825-1)
Aperture angle	≤ 60°
Reading distance	50 mm ... 380 mm [1]
Scanning frequency	200 Hz ... 800 Hz
Code resolution	0.2 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 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	5 V DC ... 30 V DC [1]
Power consumption	3 W
Housing material	Die-cast zinc, does not contain paint wetting impairment substances
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (DIN 40 050)
Protection class	III (IEC 1010-1)
Weight	250 g, with connecting cable
Dimensions (L x W x H)	59 mm x 62.7 mm x 35.2 mm
MTBF	20,000 h

[1] UL-certified when a Class 2 power supply unit is used (tested according to UL 1310).

PERFORMANCE

Bar code types	All current code types, Code 39, Code 128, Code 93, Codabar, GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode
Print ratio	2:1 ... 3:1
No. of codes per scan	1 ... 3
No. of codes per reading interval	1 ... 10
No. of characters per reading interval	100
No. of multiple readings	1 ... 99

INTERFACES

Digital inputs	2 (“Sensor 1”, “Sensor 2”)
Digital outputs	3 (“Result 1”, “Result 2”, “Result 3”)
Reading pulse	Reflector polling, Switching input “Sensor 1”, non-powered, serial interface
Optical indicators	4 LEDs (function indicator)
Acoustic indicators	Beeper/buzzer (can be switched off, can be allocated as a result indication function)

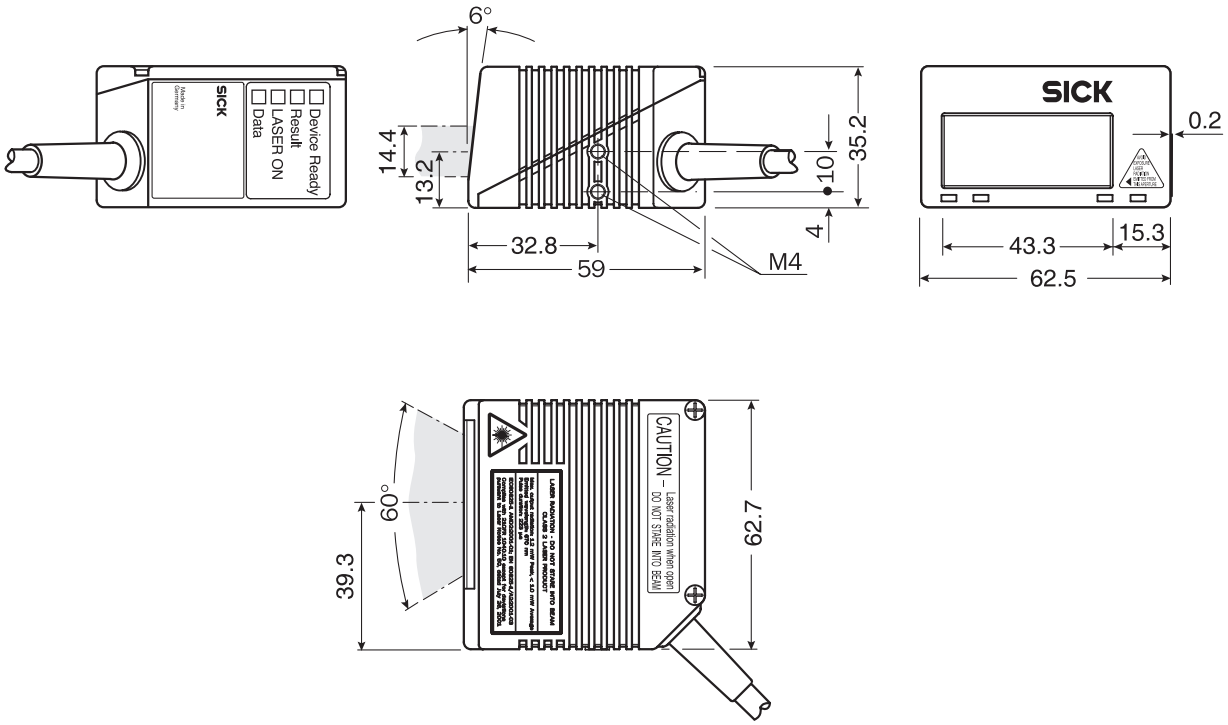
AMBIENT DATA

Electromagnetic compatibility (EMC)	EN 61000-6-3 / EN 61000-6-2
Vibration resistance	IEC 68-2-6 Test FC
Shock resistance	IEC 68-2-27 Test EA
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

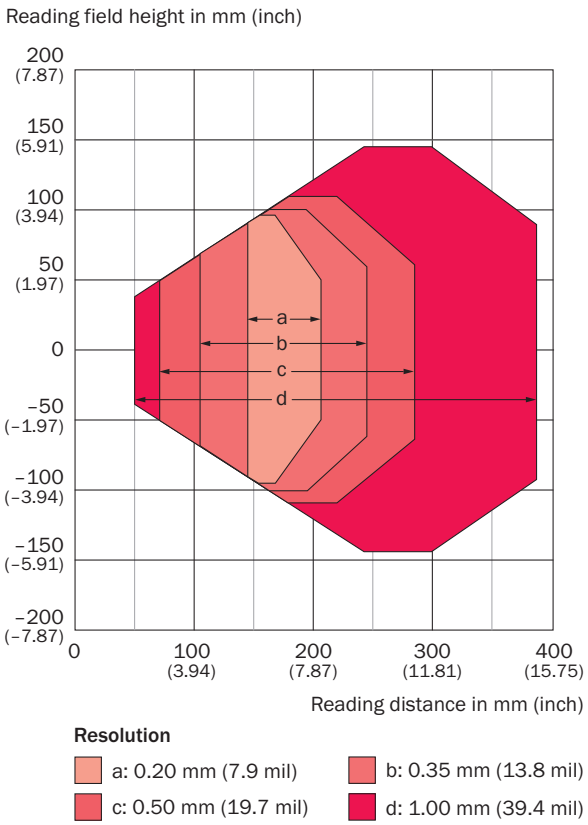
Life cycle phase	Discontinued

DIMENSIONAL DRAWING CLV41X/42X FRONT



Dimensions in mm (inch)

READING FIELD DIAGRAM



Resolution

- a: 0.20 mm (7.9 mil)
- b: 0.35 mm (13.8 mil)
- c: 0.50 mm (19.7 mil)
- d: 1.00 mm (39.4 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/1015427

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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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