Online data sheet



CLV412-0010

CLV41x

BAR CODE SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
CLV412-0010	1017527

Other models and accessories ➜ www.sick.de/CLV41x

Detailed technical data

Features

Version	High Density
Connection type	Standard
Reading field	Front
Scanner design	Line scanner
Focus	Fixed focus
Light source	Visible red light (laser, 670 nm)
MTBF	20,000 h
Laser class	2 (DIN EN 60825-1)
Aperture angle	≤ 60°
Scanning frequency	200 Hz ... 800 Hz
Code resolution	0.1 mm ... 0.2 mm
Reading distance	45 mm ... 92 mm [1]

[1] For details see reading field diagram.

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

Serial (RS-232, RS-422/-485)	✓, AUX (only RS-232)
Function	Host, AUX
Data transmission rate	300 Baud ... 57,600 Baud, AUX: 9,600 baud
Switching inputs	2 (“Sensor 1”, “Sensor 2”)
Switching 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)

Mechanics/electronics

Electrical connection	1 x 15-pin D-Sub HD male connector (0.9 m)
Operating voltage	5 V DC ... 30 V DC [1)]
Power consumption	3 W
Housing	Die-cast zinc, does not contain paint wetting impairment substances
Housing color	Light blue (RAL 5012)
Enclosure rating	IP 65 (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

[1)] UL certified for use with a Class 2 mains supply unit (checked to UL 1310)

Ambient data

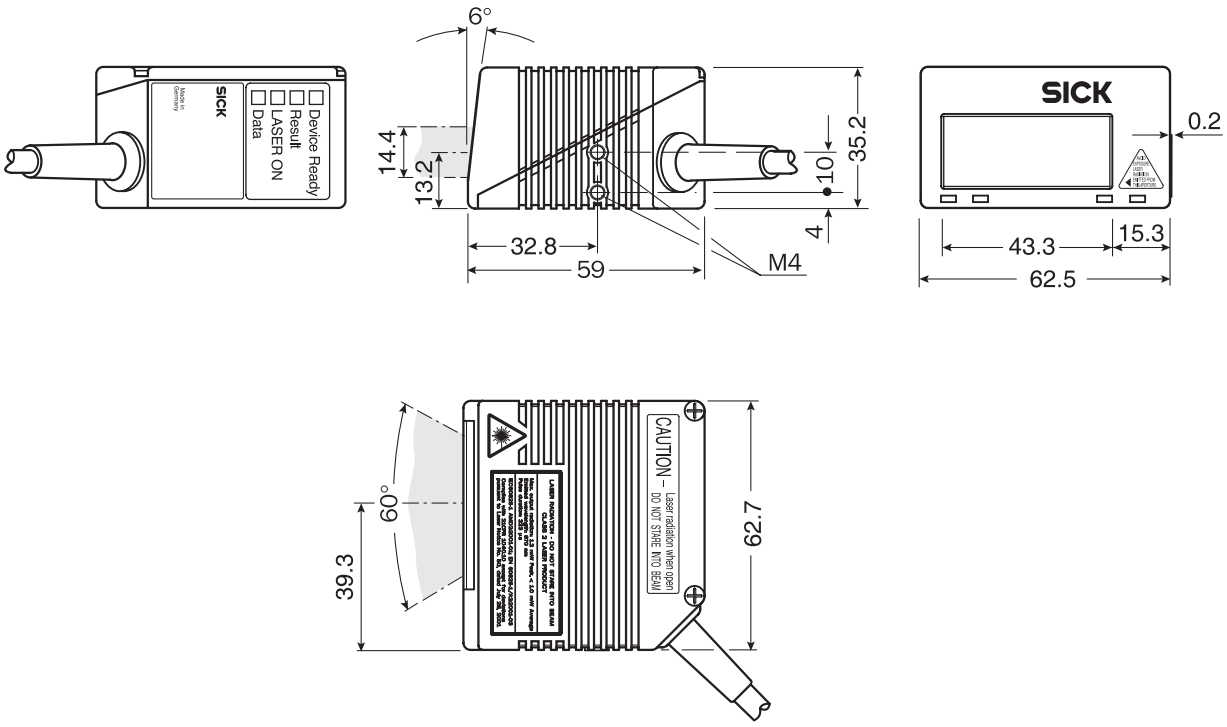
Electromagnetic compatibility (EMC)	EN 61000-6-3 / EN 61000-6-2
Vibration resistance	IEC 68-2-6 Test FC
Shock resistance	IEC 68-2-27 Test EA
Ambient operating temperature	0 °C ... +40 °C
Storage temperature	–20 °C ... +70 °C
Permissible relative humidity	± 90 %, Non-condensing
Ambient light immunity	2,000 lx, on bar code
Bar code print contrast (PCS)	≥ 60 %

General notes

Life cycle phase	Discontinued

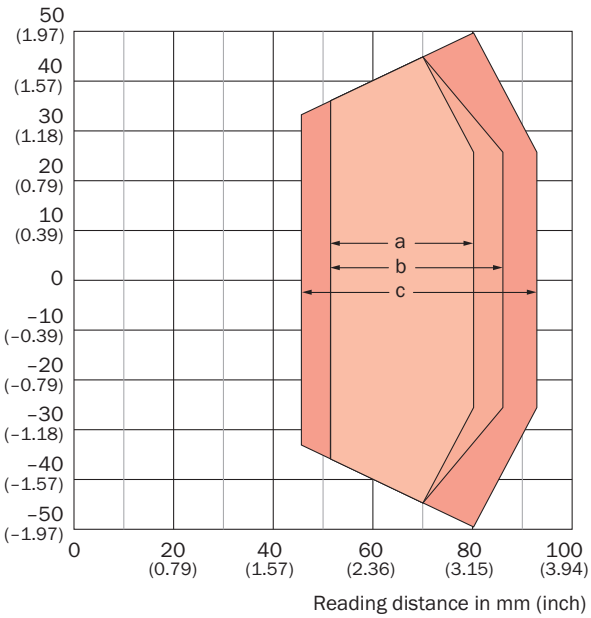
Dimensional drawing (Dimensions in mm (inch))

CLV41x/42x front



Reading field diagram

Reading field height in mm (inch)



Resolution

a: 0.1 mm (3.9 mil)
b: 0.15 mm (5.9 mil)
c: 0.2 mm (7.9 mil)

Recommended accessories

Other models and accessories ➜ www.sick.de/CLV41x

	Brief description	Type	Part no.
Mounting brackets and mounting plates			
	Mounting bracket, small, mounting hardware included	Mounting bracket	2020077
Modules			
	Small connection module for one CLV41x	CDB410-001	1023813
	Modular connection module for one CLV41x	CDM410-0001	1025361

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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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