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Online data sheet



CLV421-0010

CLV42x

BAR CODE SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
CLV421-0010	1022547

Other models and accessories → www.sick.de/CLV42x

Detailed technical data

Features

Version	Long Range
Connection type	Standard
Reading field	Front
Scanner design	Line scanner
Focus	Fixed focus
Light source	Visible red light
MTBF	20,000 h
Laser class	2 (DIN EN 60825-1)
Aperture angle	≤ 50°
Scanning frequency	400 Hz ... 1,200 Hz
Code resolution	0.35 mm ... 1 mm
Reading distance	60 mm ... 730 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 (auto-discriminating)
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
Ethernet	✓, optional via external connection module (CDM + CMF)
CAN bus	✓
Function	SICK CAN sensor network (Master/Slave, Multiplexer)
Data transmission rate	20 kbit/s ... 1 Mbit/s

Protocol	CANopen, CSN (SICK CAN Sensor Network)
PROFIBUS DP	✓, optional via external connection module (CDM + CMF)
DeviceNet	✓, optional via external connection module (CDM + CMF)
Switching inputs	2 (“Sensor 1”, “Sensor 2”)
Switching outputs	2 (“Result 1”, “Result 2”)
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	10 V DC ... 30 V DC [1)]
Power consumption	3.5 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 (VDE 0106, 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

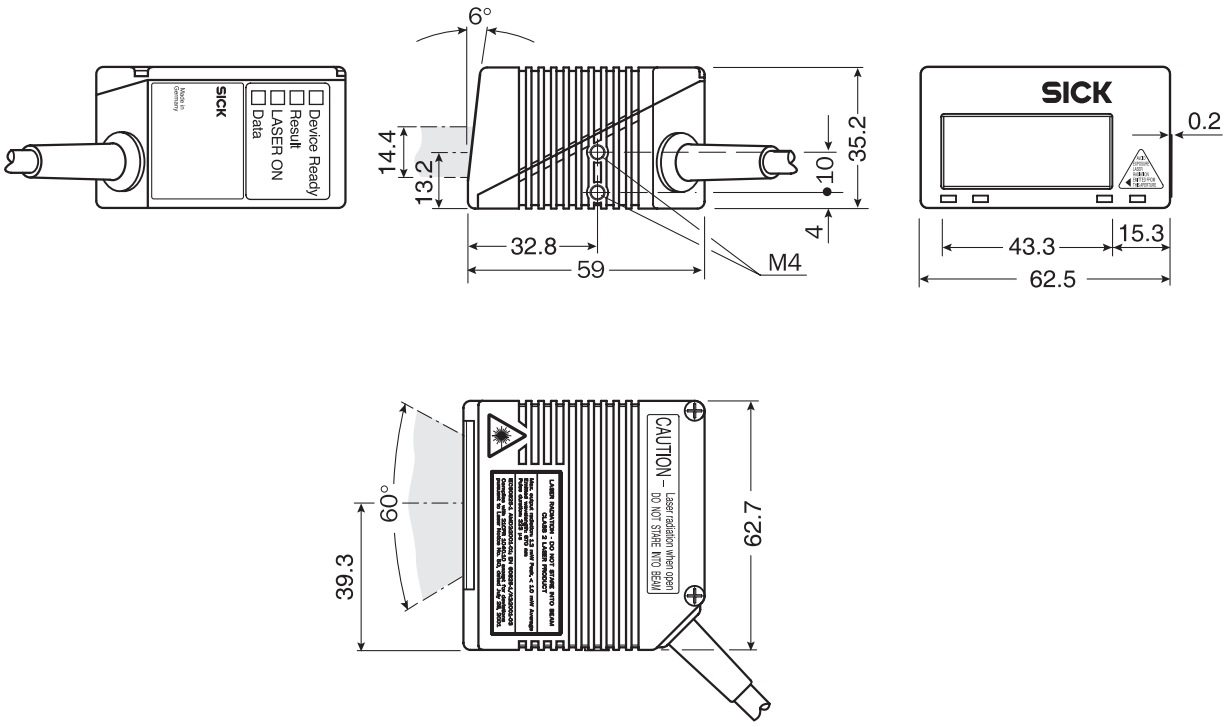
Electromagnetic compatibility (EMC)	EN 61000-6-2 / EN 55011
Vibration resistance	IEC 68-2-6 Test FC
Shock resistance	IEC 68-2-27 Test EA
Ambient operating temperature	0 °C ... +40 °C
Storage temperature	–20 °C ... +70 °C
Permissible relative humidity	± 90 %, Non-condensing
Ambient light immunity	2,000 lx, on bar code
Bar code print contrast (PCS)	≥ 60 %

General notes

Life cycle phase	Discontinued

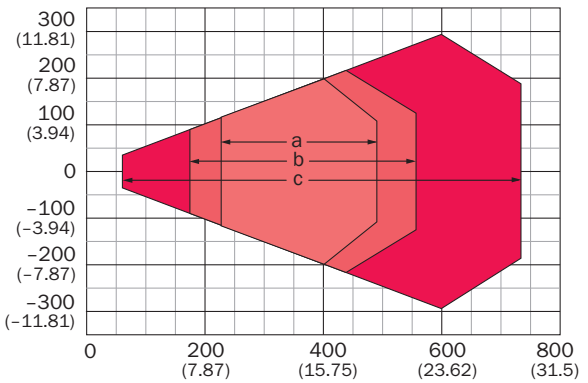
Dimensional drawing (Dimensions in mm (inch))

CLV41x/42x front



Reading field diagram

Reading field height in mm (inch)



Reading distance in mm (inch)

Resolution

a: 0.35 mm (13.8 mil)
b: 0.50 mm (19.7 mil)
c: 1.00 mm (39.4 mil)

Recommended accessories

Other models and accessories ➜ www.sick.de/CLV42x

	Brief description	Type	Part no.
Mounting brackets and mounting plates			
	Mounting bracket, small, mounting hardware included	Mounting bracket	2020077
Modules			
	Modular connection module for one sensor	CDM420-0001	1025362

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