

Bar Code Scanners
CLV42x / CLV420 / Standard Range

CLV420-0010



Model Name CLV420-0010
Part Number 1022031



At a glance

- First-rate user comfort
- Small housing
- Device available as standard, long range and high density version
- Version with face-side and side reading window available
- CAN bus compatible
- High scanning frequency of up to 1,200 Hz

Your benefits

- Code identification even at high transport speeds
- Easy integration in varying networks
- Flexible installation in highly integrated machine environments
- Easy mechanical installation due to the very compact size
- Easy installation due to various diagnosis options

Features

Type:	Standard Range
Connection type:	Standard
Reading field:	frontal
Scanner design:	Line scanner
Focus:	Fixed focus
Light source:	Visible red light
MTBF:	20,000 h
Laser class:	2
Field of view:	≤ 50 °
Scanning frequency:	400 Hz ... 1,200 Hz
Code resolution:	0.2 mm ... 1 mm
Reading distance (at code resolution):	60 mm ... 365 mm (1 mm)

Performance

Bar code types:	2/5 Interleaved, All current code types, Codabar, Code 128, Code 39, Code 93, EAN, EAN 128, Pharmacode, UPC
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):	✓
Remark (Serial (RS-232, RS-422/485)):	AUX (only RS-232)
Function (Serial (RS-232, RS-422/485)):	AUX
Data transmission rate (Serial (RS-232, RS-422/485)):	300 Baud ... 57,600 Baud , AUX: 9,600 Baud
Ethernet:	✓
Remark (Ethernet):	Optionally via external connection module (CDM + CMF)
CAN-Bus:	✓
Function (CAN-Bus):	CAN-sensor-network (Master/Slave, Multiplexer)
Protocol (CAN-Bus):	CANopen, CSN (SICK CAN sensor network)
Data transmission rate (CAN-Bus):	20 KBit/s ... 1 MBit/s
PROFIBUS:	✓
Remark (PROFIBUS):	Optionally via external connection module (CDM + CMF)
PROFINET:	✓
DeviceNet:	✓
Remark (DeviceNet):	Optionally via external connection module (CDM + CMF)
Switching inputs:	2 ("Sensor 1", "Sensor 2")
Switching outputs:	2 ("Result 1", "Result 2")
Reading pulse:	Nonpowered, Reflector polling, "Sensor 1" switching input, Serial interface
Optical indicators:	4 LED (Function indicators)
Acoustic indicators:	Beeper/buzzer (Can be switched off, Can be allocated result status indication function)

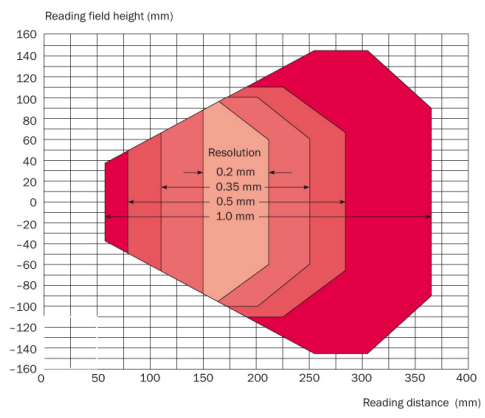
Mechanics/electronics

Electrical connection:	1 15 pin D-Sub HD plug (0.9 m)
Operating voltage:	10 V DC ... 30 V DC , UL certified for use with a Class 2 mains supply unit (checked to UL 1310)
Power consumption:	3.5 W
Housing:	Zinc diecast, , does not contain paint wetting impairment substances
Enclosure rating:	IP 65
Protection class:	3 (VDE 0106)
Weight:	250 g, With connecting cable
Dimensions:	59 mm x 62.7 mm x 35.2 mm

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 safety:	2,000 lx, On bar code
Bar code print contrast (PCS):	≥ 60 %

Reading field diagram



Australia

Phone +61 3 9497 4100
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +852-2763 6966
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-0
E-Mail info@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-999-0590
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

Republic of Korea

Phone +82-2 786 6321/4
E-Mail kang@sickkorea.net

Republika Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7 495 775 05 34
E-Mail info@sick-automation.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288
E-Mail sickgrc@ms6.hinet.net

Türkiye

Phone +90 216 587 74 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 4 8865 878
E-Mail info@sick.ae

USA/Canada/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

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