



Bar code scanners CLV61x / CLV610 / Mid Range

CLV610-C1000



Model Name > **CLV610-C1000**
Part No. > **1062846**



At a glance

- Optimized reading field for intralogistics applications
- Available with SICK CAN sensor network
- Configuration with SOPAS, the configuration tool for all new SICK products
- Available in different versions (CAN, Fieldbus) for use in almost any application
- Adjustable scanning frequency of up to 1000 scans/second
- Compact design

Your benefits

- A suitable scanner version for any CLV61x application
- An optimized reading field for container identification on a conveyor belt, in combination with the intuitive SOPAS user interface, enables quick and easy integration into your conveyor system
- Compact design enables installation even in applications with limited space
- Less programming time required for the control system, since data can be transmitted to the control system in the desired format
- Depending on the version, the CLV61x bar code scanner can be used as a multiplexer in any SICK CAN sensor network, so additional multiplexers are not required
- The optional configuration cloning module in combination with the quick-release mounting bracket enables very fast replacement time in the event of a fault



Features

Version:	Mid Range
Connection type:	Cable
Reading field:	Front
Scanner design:	Raster scanner
Focus:	Fixed focus
Light source:	Visible red light (655 nm)
MTBF:	40,000 h
Laser class:	2 (EN 60825-1 (2008-05))
Field of view:	≤ 50 °
Code resolution:	0.2 mm ... 1 mm
Reading distance:	60 mm ... 365 mm ¹⁾
Raster height, number of lines, at distance:	15 mm, 8, 200 mm
Variant:	CAN
Scanning frequency:	400 Hz ... 1,000 Hz

1) For details see reading field diagram

Performance

Bar code types:	Interleaved 2 of 5, All current code types, Codabar, Code 128, Code 39, Code 93, UPC/GTIN/EAN
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, 500 (for multiplexer function in CAN operation)
No. of multiple readings:	1 ... 99

Interfaces

Serial (RS-232):	✓
Function (Serial (RS-232)):	Host, AUX
Data transmission rate (Serial (RS-232)):	2,400 Baud ... 115 kBaud, AUX: 57.6 kBaud
Ethernet:	-
CAN bus:	✓
Function (CAN bus):	SICK CAN sensor network (Master/Slave, Multiplexer/Server)
Protocol (CAN bus):	CSN (SICK CAN Sensor Network)
Data transmission rate (CAN bus):	20 kbit/s ... 1 Mbit/s
PROFIBUS DP:	-
DeviceNet:	-
Switching inputs:	4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Switching outputs:	4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420)
Reading pulse:	Auto pulse, CAN, Non-powered, Switching inputs, Serial interface
Optical indicators:	1 RGB LED (multifunctional)
Acoustic indicators:	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Configuration software:	SOPAS ET

Mechanics/electronics

Electrical connection:	1 x 15-pin D-Sub HD male connector (0.9 m)
Operating voltage:	10 V DC ... 30 V DC
Power consumption:	2.8 W
Housing:	Die-cast aluminum
Housing color:	Light blue (RAL 5012)
Front screen:	Glass
Enclosure rating:	IP 65 (DIN 40 050)
Protection class:	III (VDE 0106/IEC 1010-1)
Weight:	265 g, with connecting cable
Dimensions:	61 mm x 66 mm x 38 mm

Ambient data

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
Bar code print contrast (PCS):	≥ 60 %

Ambient light immunity:

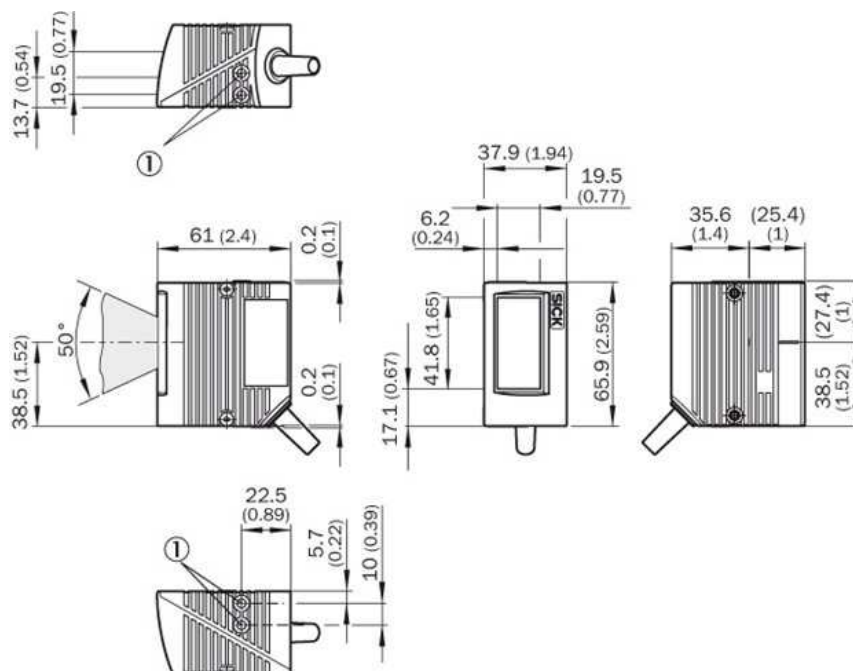
2,000 lx, on bar code

General notes

Items supplied:

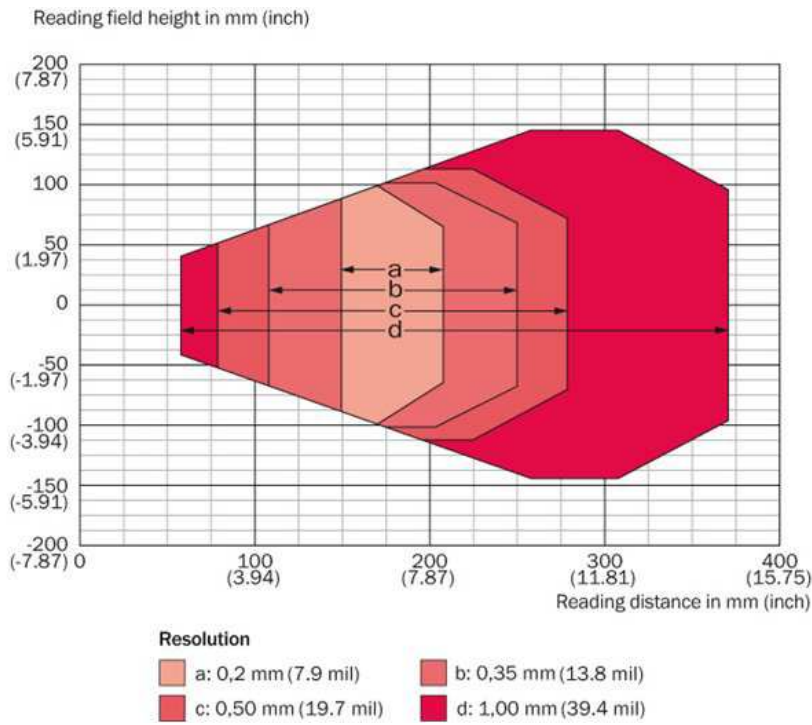
Single scanner

Dimensional drawing



[1] blind hole thread M5, 5 mm deep (2 x), for mounting

Reading field diagram



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