SICK Service Manual

CLV650-6000

1. Description

SICK CLV650-6000

3. Product Information

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SICK CLV650-6000 | CLV65x

FIXED MOUNT BAR CODE SCANNERS

Features

Version Standard Density

Connection type Cable

Reading field Oscillating mirror

Scanning method Line scanner

Optical focus Auto focus

Light source

Light spot Laser, Visible, Red, 658 nm

Laser class 2 (IEC 60825-1:2014, EN 60825-1:2014)

Aperture angle ≤ 50°

Scanning frequency 600 Hz ... 1,000 Hz

Code resolution 0.25 mm ... 1 mm

Reading distance 125 mm ... 1,570 mm

Oscillating mirror functions Fixed (adjustable position), oscillating (variable or fixed amplitude), one shot

Oscillation frequency 0.5 Hz ... 6.25 Hz

Angle of deflection –20° ... 20°

Mechanics/electronics

Connection type 1 x 15-pin D-Sub HD male connector (0.9 m)

Supply voltage 18 V DC ... 30 V DC

Power consumption 9.5 W

Housing Aluminum die cast

Housing color Light blue (RAL 5012)

Front screen Glass

Enclosure rating IP65 (EN 60529)

Protection class III (EN 61140)

Weight 320 g, with connecting cable

Dimensions (L x W x H) 95 mm x 107 mm x 41 mm

MTBF 100,000 h

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Performance

Readable code structures 1D codes

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, GS1 DataBar, Telepen, MSI/Plessey

Print ratio 2:1 ... 3:1

No. of codes per scan 1 ... 20 (Standard decoder)

1 ... 6 (SMART decoder)

No. of codes per reading interval 1 ... 50 (auto-discriminating)

No. of characters per reading interval 5,000

500 (for multiplexer function in CAN operation)

No. of multiple readings 1 ... 99

Interfaces

PROFINET ✔

Type of fieldbus integration Optional over external fieldbus module CDF600-2

Function PROFINET Single Port, PROFINET Dual Port

EtherCAT® ✔

Type of fieldbus integration Optional over external fieldbus module CDF600

Serial ✔, RS-232, RS-422, RS-485

Function Host, AUX

Data transmission rate 2,400 Baud ... 115.2 kBaud, AUX: 57.6 kBaud (RS-232)

CAN ✔

Function SICK CAN sensor network CSN (master/slave, multiplexer/server)

Data transmission rate 20 kbit/s ... 1 Mbit/s

CANopen ✔

Data transmission rate 20 kbit/s ... 1 Mbit/s

PROFIBUS DP ✔

Type of fieldbus integration Optional over external fieldbus module CDF600-2

DeviceNet™ ✔

Type of fieldbus integration Optional, over external connection module CDM + CMF

Digital inputs 4 (“Sensor 1”, “Sensor 2”, 2 inputs via optional parameter storage CMC600 in CDB620/ CDM420)

Digital outputs 4 (“Result 1”, “Result 2”, 2 outputs via optional parameter storage CMC600 in CDB620/ CDM420)

Reading pulse Digital inputs, non-powered, serial interface, auto pulse, CAN

Optical indicators 6 LEDs (Ready)

, Result

, laser

, Data

, CAN

, LNK TX

, Bar graph for displaying the reading rate percentage (10 LEDs)

Acoustic indicators Beeper/buzzer (can be switched off, can be allocated as a result indication function)

Control elements 2 buttons (choose and start/stop functions)

Configuration software SOPAS ET

Memory card MicroSD memory card (flash card), optional

Ambient data

Electromagnetic compatibility (EMC) EN 61000-6-3 (2001-10) / EN 61000-6-2:2005

Vibration resistance EN 60068-2-6 (1995)

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 %

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