



CLV632-2000F0

CLV63x

FIXED MOUNT BAR CODE SCANNERS





Ordering information

Туре	Part no.
CLV632-2000F0	1059976

Other models and accessories → www.sick.com/CLV63x



Detailed technical data

Features

	Chart Dange
Version	Short Range
Connection type	Cable
Reading field	Side (105°)
Scanning method	Line scanner
Optical focus	Fixed focus
Light source	
Light spot	Laser, Visible, Red, 655 nm
Light spot	Circular
Laser class	2 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	≤ 50°
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.2 mm 0.5 mm
Reading distance	44 mm 256 mm ¹⁾
Heating	√

 $^{^{1)}}$ For details see reading field diagram.

Mechanics/electronics

Connection type	1 x 15-pin D-Sub HD male connector (0.9 m) 1 x cable, open-ended, 3-wire (2 m)
Supply voltage	≤ 24 V DC, ≤ 10 %
Power consumption	40 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	540 g, with connecting cable

Dimensions (L x W x H)	80 mm x 96 mm x 50 mm
MTBF	100,000 h

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	199

Interfaces

Type of fieldbus integration Function Type of fieldbus integration Type of	PROFINET		√
FetherCAT ✓ Type of fieldbus integration Optional over external fieldbus module CDF600 Serial ✓ Function Acoustic indicators Function Data transmission rate 2.400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232) CAN ✓ Bota 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 Office indicators CDM420) A("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) CDM420 CDM420 Reading pulse Digital inputs, non-powered, serial interface, auto pulse, CAN Optical indicators 6 LEDs (Ready) , Result 1, Isaer , Data , LINK 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)		Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Serial Function Function Function Data transmission rate CAN Pact Tansmission rate Data transmission rate V Dottional over external fieldbus module CDF600-2 V Diptical inputs Digital inputs Digital inputs COM420) Digital outputs COM420) Digital outputs CDF600-2 V CDM420) Digital indicators CDM420 Digital inputs Digital inputs Digital inputs Digital inputs Digital inputs Digital inputs Digital inputs, non-powered, serial interface, auto pulse, CAN LINK TX Bar graph for displaying the reading rate percentage (10 LEDs) Acoustic indicators Department Department Department Data Data Data Data Data Data Data Da		Function	PROFINET Single Port, PROFINET Dual Port
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CAN Function Data transmission rate Punction Data transmission rate	Serial		√ , RS-232, RS-422, RS-485
Function Data transmission rate V Data transmission rate Data ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Digital inductors Cal ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Digital inductors Cal ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Digital inductors Cal ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Cibra ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Digital inductors Cal ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Digital inductors Compared transmission rate Compared transmission rate percentage (10 LEDs) Reading pulse Digital inductors Cal ("Result 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Reading pulse Digital inputs via optional parameter storage CMC600 in CDB620/CDM420 Compared via co		Function	Host, AUX
Data transmission rate CANopen Data transmission rate Type of fieldbus integration DeviceNet™ Type of fieldbus integration Digital inputs Digital inputs CDM420) Reading pulse Digital outputs Cobincal indicators Digital inputs Digital inputs Digital inputs Digital inputs Digital inputs Digital inputs, non-powered, serial interface, auto pulse, CAN CDM420) Reading pulse Digital inputs, non-powered, serial interface, auto pulse, CAN CDM420) Acoustic indicators Deeper/buzzer (can be switched off, can be allocated as a result indication function) Control elements SICK CAN sensor 1 methods Aboutstic indicators Subtitions SICK CAN sensor network CSN (master/slave, multiplexer/server) A bit /s Aboutstic indicators SICK CAN sensor network CSN (master/slave, multiplexer/server) A bit /s Aboutstic indicators SICK CAN sensor network CSN (master/slave, multiplexer/server) A bit /s Aboutstic indicators SICK CAN sensor network CSN (master/slave, multiplexer/server) A bit /s Aboutstic indicators SICK CAN sensor network A bit /s Aboutstic indicators SICK CAN sensor network A bit /s Aboutstic indicators SICK CAN sensor network A bit /s A bi		Data transmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
Data transmission rate CANopen Data transmission rate Data ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/ CDM420) Digital inputs, non-powered, serial interface, auto pulse, CAN Baseult laser Data CAN LNK TX Bar graph for displaying the reading rate percentage (10 LEDs) Acoustic indicators Data transmission rate Dependence Dependence Data transmission rate Data	CAN		✓
Data transmission rate Data transmission rate PROFIBUS DP Type of fieldbus integration Type of fieldbus module CDF600-2 ##################################		Function	SICK CAN sensor network CSN (master/slave, multiplexer/server)
PROFIBUS DP Type of fieldbus integration Optional, over external connection module CDM + CMF 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 Control elements 20 kbit/s 1 Mbit/s ✓ Optional over external fieldbus module CDF600-2 ✓ Figure 1 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Seper 1 ("Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Seper 2 ("Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Seper 2 ("Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Seper 3 ("Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Seper 3 ("Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Sepre 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) Acoustic indicators Sepre 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420 Acoustic indicators Sepre 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420 Acoustic indicators Sepre 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420 Acoustic indicators Sepre 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420 Acoustic indicators Sepre 4 ("Sensor 1", "Sensor 2"		Data transmission rate	20 kbit/s 1 Mbit/s
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Type of fieldbus integration DeviceNet™ Type of fieldbus integration Digital inputs Optional, over external connection module CDM + CMF 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 DeviceNet™ Acoustic indicators Dependents Optional over external fieldbus module CDF600-2		Data transmission rate	20 kbit/s 1 Mbit/s
Type of fieldbus integration Optional, over external connection module CDM + CMF A ("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 Device Note of the control elements September 2 buttons (choose and start/stop functions)	PROFIBUS DP		✓
Type of fieldbus integration Optional, over external connection module CDM + CMF 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) A ("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 6 LEDs (Ready) Result I 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) 2 buttons (choose and start/stop functions)		Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Digital inputs 4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) 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 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)	DeviceNet™		√
CDM420) 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 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)		Type of fieldbus integration	Optional, over external connection module CDM + CMF
CDM420) Reading pulse Digital inputs, non-powered, serial interface, auto pulse, CAN 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)	Digital inputs		
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)	Digital outputs		
, 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)	Reading pulse		Digital inputs, non-powered, serial interface, auto pulse, CAN
Control elements 2 buttons (choose and start/stop functions)	Optical indicators		, Result , laser , Data , CAN , LNK TX
, , , , , , , , , , , , , , , , , , , ,	Acoustic indicators	3	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Configuration software SOPAS ET	Control elements		2 buttons (choose and start/stop functions)
	Configuration soft	ware	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	-35 °C +35 °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			
Note on use	For Ethernet connection please use an Ethernet version of CLV6xx		
Classifications			
ECI@ss 5.0	27280102		
ECI@ss 5.1.4	27280102		
ECI@ss 6.0	27280102		
ECI@ss 6.2	27280102		
ECI@ss 7.0	27280102		

27280102

27280102

27280102

27280102

27280102

EC002550

EC002550

EC002550

43211701

ECI@ss 8.0

ECI@ss 8.1

ECI@ss 9.0

ECI@ss 10.0

ECI@ss 11.0

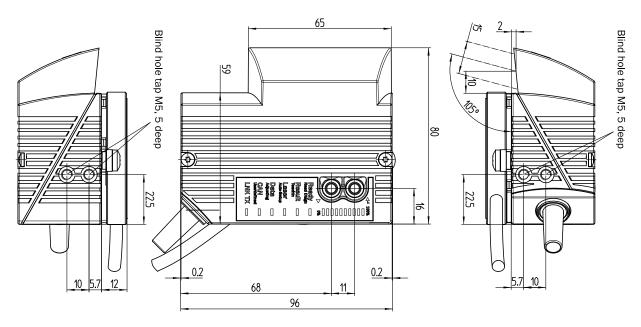
ETIM 5.0

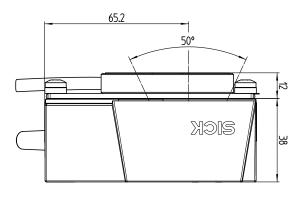
ETIM 6.0

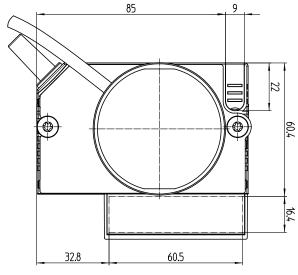
ETIM 7.0

UNSPSC 16.0901

Dimensional drawing (Dimensions in mm (inch))



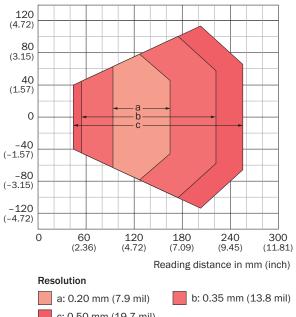




mm	inch
0.2	0.008
2	0.08
5	0.19
5.7	0.23
9	0.35
10	0.39
11	0.43
12	0.47
15	0.59
16	0.63
16.4	0.65
22	0.87
22.5	0.89
32.8	1.29
38	1.50
59	2.32
60.4	2.38
60.5	2.38
65	2.56
65.2	2.57
68	2.68
80	3.15
85	3.35
96	3.78

Reading field diagram





c: 0.50 mm (19.7 mil)

Recommended accessories

Other models and accessories → www.sick.com/CLV63x

	Brief description	Туре	Part no.		
Mounting brackets and plates					
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705		
Cloning modu	le				
NAME OF THE PARTY	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259		
Modules	Modules				
The state of the s	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256		
	Modular connection module for one sensor	CDM420-0001	1025362		
Electronic modules					
	Additional board for connecting a bar code scanner with heater in combination with CDM-420	Additional board	2055071		

	Brief description	Туре	Part no.
Storage media	9		
	microSD memory card with 1 GB for industrial use	microSD memory card	4051366

Recommended services

Additional services → www.sick.com/CLV63x

	Туре	Part no.
Performance check		
 Product area: Fixed mount bar code scanners Range of services: Inspection of defined functions, e.g., reading performance Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Performance check CLV4xx/CLV6xx	1682028
Product, system, and software training		
 Range of services: SICK offers training courses for numerous target groups ranging from basic to expert levels, Training format and location can be worked out in collaboration with SICK 	Training for the CLV6 series	1612231
Warranty extensions		
 Product area: Identification solutions, machine vision, Distance sensors, Detection and ranging solutions Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase) Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671
Commissioning		
 Product area: Fixed mount bar code scanners Range of services: Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as tests, Setup of previously defined functions of reading configuration, code configuration, data processing and network, interfaces or inputs and outputs Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning CLV61x CLV64x	1681925

SICK AT A GLANCE

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:

Contacts and other locations -www.sick.com

