

Bar code scanners
CLV64x / CLV640 / Standard Density

CLV640-0000



Model Name > **CLV640-0000**
Part No. > **1042014**



At a glance

- Dynamic focus adjustment enables extended depth of field
- Integrated pushbuttons for auto setup and reading diagnostics
- CAN, Ethernet TCP/IP, and EtherNet/IP available on board, no additional gateway needed (depending on variant)
- Enhanced SMART code reconstruction technology
- Flexible sorting, filtering, and logical functions
- Advanced, easy-to-use SOPAS configuration software
- Integrated LED bar graph
- Advanced remote diagnostics and network monitoring capabilities available over Ethernet

Your benefits

- Economical, as only one CLV64x is required for all focus positions
- Intelligent auto setup and multi-function pushbuttons save time during commissioning
- Teach-in of match code possible via the pushbuttons
- Easily execute firmware updates using the SD memory card: no need for a PC
- No supplementary Ethernet gateway required with Ethernet models - lowers costs
- Enhanced SMART technology reads damaged and partially obscured codes, increasing read rates
- Increased scanner intelligence enables sophisticated configuration of logical operations, reducing the control system programming effort. Data is then delivered in the desired format
- Real-time decoding at very high speeds



Features

Type:	Standard Density
Connection type:	Standard
Reading field:	Front
Scanner design:	Line scanner
Focus:	Dynamic focus control
Light source:	visible red light (655 nm)
MTBF:	40,000 h
Laser class:	2 (EN 60825-1 (A2:2001-03))
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 ... 840 mm (1 mm)
Heating:	optional

Performance

Bar code types:	Interleaved 2 of 5, all current code types, Codabar, Code 128, Code 39, Code 93, EAN, EAN 128, GS1 DataBar, Pharmacode, UPC
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

Serial (RS-232, RS-422/485):	✓
Remark (Serial (RS-232, RS-422/485)):	AUX (only RS-232)
Function (Serial (RS-232, RS-422/485)):	Host, AUX
Data transmission rate (Serial (RS-232, RS-422/485)):	2,400 Baud ... 115 kBaud , AUX: 57.6 kBaud
Ethernet:	-
Remark (Ethernet):	optional 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):	optional via external connection module (CDF)
ProfiNet:	-
DeviceNet:	-
Remark (DeviceNet):	optional via external connection module (CDM + CMF)
Connector:	fix
Control elements:	2 buttons (choose and start/stop functions)
Memory card:	Micro SD card (flash card) 512 MB, optional
Switching inputs:	2 ("Sensor 1", "Sensor 2", 2 additional inputs via CMC600 in CDB620)
Switching outputs:	2 ("Result 1", "Result 2", 2 additional outputs via CMC600 in CDB620)
Reading pulse:	auto pulse, non-powered, "Sensor 1" switching input, serial interface
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 status indication function)

Mechanics/electronics

Electrical connection:	1 15-pin D-Sub HD plug (0.9 m)
Operating voltage:	18 V DC ... 30 V DC
Power consumption:	5.5 W
Housing:	Die-cast aluminum
Housing color:	light blue (RAL 5012)
Enclosure rating:	IP 65 (EN 60529)
Protection class:	III (EN 61140)
Weight:	320 g, with connecting cable
Dimensions:	61 mm x 96 mm x 38 mm

Electromagnetic compatibility (EMC):	EN 61000-6-3 (2001-10)/EN 61000-6-2:2005
Vibration resistance:	EN 60068-2-6 (1995)
Shock resistance:	EN 60068-2-27 (1993)
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 %

Resolution 0.5 mm (19.7 mil)

Focus position (mm)	Focus position (inch)	Reading distance (mm) at 25°	Reading distance (mm) at 50°	Reading distance (inch) at 25°	Reading distance (inch) at 50°
80	(3.15)	160	100	(6.3)	(3.94)
140	(5.51)	240	140	(9.4)	(5.51)
200	(7.87)	320	180	(12.6)	(7.09)
260	(10.24)	400	220	(15.75)	(8.66)
320	(12.6)	480	260	(18.9)	(10.24)
380	(14.96)	560	300	(22.05)	(11.81)

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