

Bar Code Scanners
CLX49x / CLX490 / Standard Density

CLX490-0010



Stocked, Distributed, and Supported by

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SICK
Sensor Intelligence.

Model Name CLX490-0010
Part Number 1019318



At a glance

- Real-time Autofocus function
- Independent of tilt (omni-directional bar code reading)
- Reliable code detection in real time thanks to SMART technology
- Smallest housing in its class
- Additional interfaces for external parameter memory

Your benefits

- No additional controller in stand-alone applications to cover smallest object gaps necessary
- No supplementary components necessary for detection of object distances
- Bar code scanners can be used in an Omni Portal System, e. g. as additional side scanners

Features

Type:	Standard Density
Connection type:	Standard
Reading field:	front
Scanner design:	X scanner (2 lines offset from each other at a 90° angle)
Focus:	Autofocus (alternative: dynamic focus control)
Light source:	visible red light (650 nm)
MTBF:	20,000 h
Laser class:	2
Field of view:	≤ 60 °
Scanning frequency:	600 Hz ... 1,200 Hz
Code resolution:	0.3 mm ... 1 mm
Reading distance (at code resolution):	500 mm ... 1,750 mm (0.5 mm)
No. of distance configurations:	8
Focus adjustment time:	≤ 20 ms
Focus trigger source:	Data interface, Switching inputs "IN 0 ... IN 4", Timer

Performance

Bar code types:	2/5 Interleaved, all current code types, Codabar, Code 128, Code 39, Code 93, EAN, EAN 128, UPC
Print ratio:	2:1 ... 3:1
No. of codes per scan:	1 ... 12 (Standard decoder) 1 ... 6 (SMART decoder)
No. of codes per reading interval:	1 ... 50 (auto-discriminating)
No. of characters per reading interval:	600
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)):	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):	10 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:	6 (Sensor, IN 0 ... IN 4)
Switching outputs:	4 ("Result 1" ... "Result 4")
Reading pulse:	Data interface, nonpowered, OTS (Omni tracking), "Sensor 4" switching input (+ "IN 4")
Optical indicators:	4 LED (Function indicators)

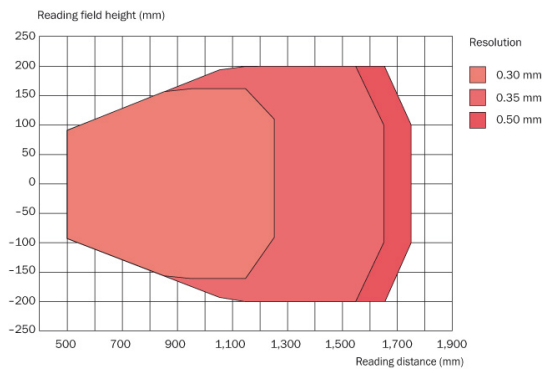
Mechanics/electronics

Electrical connection:	1, 1 15 pin D-Sub HD device socket
Operating voltage:	18 V DC ... 30 V DC
Power consumption:	16 W
Housing:	Aluminium die-cast, no materials containing silicone on outside
Housing color:	Light blue (RAL 5012)
Enclosure rating:	IP 65
Protection class:	3
Weight:	2,000 g
Dimensions:	208 mm x 152.6 mm x 175.5 mm

Ambient data

Electromagnetic compatibility (EMC):	EN 61000-6-2(2001-10)/EN 61000-6-3(2001-10)/EN 61000-6-3/A11 (2004-07)
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 %

Reading field diagram



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