CLV490-0010

CLV49x

FIXED MOUNT BARCODE SCANNERS

SICK
Sensor Intelligence.

CLV490-0010 | CLV49x
FIXED MOUNT BARCODE SCANNERS

Ordering information

Type	Part no.
CLV490-0010	1016958

Other models and accessories ➜ www.sick.com/CLV49x

Detailed technical data

Features

Task	Identifying - 1D code
Version	Standard Density
Connection type	Standard
Reading field	Front
Scanner design	Line scanner
Optical focus	Auto focus (alternative: dynamic focus control)
No. of distance configurations	≤ 8
Focus adjustment time	≤ 20 ms
Focus trigger source	Switching inputs "IN 0 … IN 4" / data interface / timer
Light source	Visible red light (650 nm)
Laser class	2 (DIN EN 60825-1)
Aperture angle	≤ 60°
Reading distance	500 mm … 2,100 mm [1]
Scanning frequency	600 Hz … 1,200 Hz
Code resolution	0.25 mm … 1 mm
On delay	35 … 40 min at –35 °C and 24 V DC

[1] For details see reading field diagram.

Mechanics/electronics

Connection type	1 x 15-pin D-sub HD plug 1 x 15-pin D-Sub HD device female connector
Supply voltage	18 V DC … 30 V DC
Power consumption	16 W
Housing	Aluminum die cast, no materials containing silicone on outside
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (DIN 40 050)
Protection class	III (VDE 0106)
Weight	1,500 g

Dimensions (L x W x H)	117 mm x 117 mm x 94 mm
MTBF	80,000 h

Performance

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
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

Digital inputs	6 (Sensor, IN 0 ... IN 4)
Digital outputs	4 ("Result 1" ... "Result 4")
Reading pulse	Switching input "Sensor" (+ "IN 4"), non-powered, data interface, OTS (Omni tracking)
Optical indicators	4 LEDs (function indicator)

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 immunity	2,000 lx, on barcode

General notes

Life cycle phase	Discontinued

Classifications

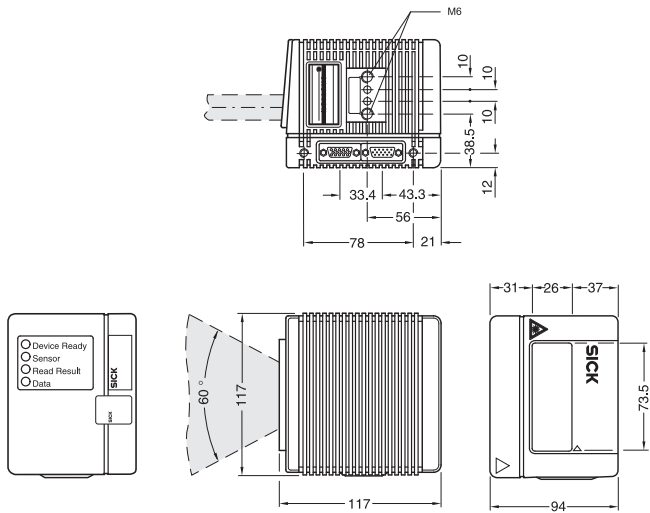| ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550

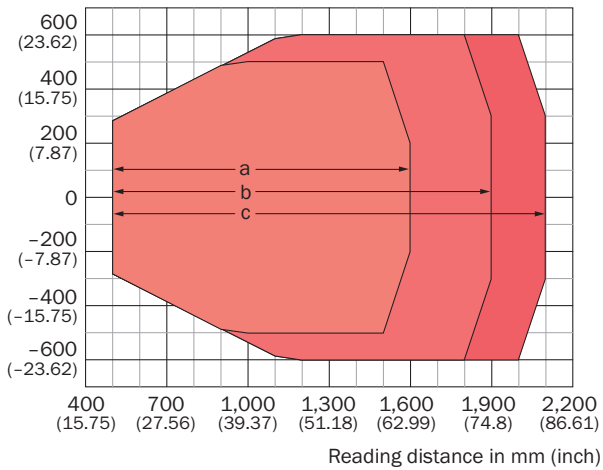| ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

Dimensional drawing (Dimensions in mm (inch))

CLV48x/49x front

Reading field diagram

Reading field height in mm (inch)

Reading distance in mm (inch)

Resolution

- a: 0.30 mm (11.8 mil)
- b: 0.35 mm (13.8 mil)
- c: 0.50 mm (19.7 mil)

Recommended accessories

Other models and accessories ➜ www.sick.com/CLV49x

	Brief description	Type	Part no.
Mounting brackets and plates			
	Simple mounting bracket	Mounting bracket	2013824
Others			
	• **Connection type head A:** Male connector, female connector, D-Sub-HD, 15-pin • **Connection type head B:** Male connector, D-Sub-HD, 15-pin • **Signal type:** Power, serial, CAN, digital I/Os • **Cable:** 3 m • **Description:** Power, serial, CAN, digital I/Os, shielded, to connection module CDM490	Cover for male connector	2020307
	• **Connection type head A:** Male connector, female connector, D-Sub-HD, D-Sub-HD, 15-pin • **Connection type head B:** Male connector, D-Sub-HD, 15-pin • **Signal type:** Power, serial, CAN, digital I/Os • **Cable:** 3 m, 15-wire • **Description:** Power, serial, CAN, digital I/Os, unshielded, to connection module CDM42x	Connection cable	2030023
Modules			
	• **Sub product family:** CDM490 • **Fieldbus interface:** PROFIBUS DP, Ethernet, DeviceNet™ • **Supported products:** CLV69x, LMS400 • **Brief description:** Modular connection module for one sensor	CDM490-0001	1025363

Recommended services

Additional services ➜ www.sick.com/CLV49x

	Type	Part no.
Performance check		
• **Product area:** Fixed mount barcode scanners • **Range of services:** Inspection of defined functions, e.g., reading performance • **Duration:** Additional work will be invoiced separately	Performance check CLV	1682028
Maintenance		
• **Product area:** Fixed mount barcode scanners • **Range of services:** Inspection, analysis and restoring of defined functions, Inspection and adjustment of reading configuration, code configuration, data processing and network or interfaces • **Duration:** Additional work will be invoiced separately	Maintenance CLV	1611420

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."

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