



CLV450-0010

CLV45x

FIXED MOUNT BARCODE SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
CLV450-0010	1018556

Other models and accessories → www.sick.com/CLV45x

Detailed technical data

Features

Version	Standard Density
Connection type	Standard
Reading field	Front
Scanner design	Line scanner
Optical focus	Dynamic focus control
No. of distance configurations	≤ 8
Focus adjustment time	≤ 50 ms
Focus trigger source	Switching input "Sensor 2" / serial interface / timer
Light source	Visible red light (650 nm)
Laser class	2 (DIN EN 60825-1)
Aperture angle	≤ 50°
Reading distance	125 mm ... 1,600 mm ¹⁾
Scanning frequency	400 Hz ... 1,000 Hz
Code resolution	0.25 mm ... 1 mm

¹⁾ For details see reading field diagram.

Mechanics/electronics

Connection type	1 x 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	10 V DC ... 30 V DC ¹⁾
Power consumption	6 W
Housing material	Die-cast zinc, does not contain paint wetting impairment substances
Housing color	Light blue (RAL 5012)
Enclosure rating	IP65 (DIN 40 050)
Protection class	III (VDE 0106) IEC 1010-1
Weight	530 g, with connecting cable
Dimensions (L x W x H)	90 mm x 60 mm x 35.7 mm

¹⁾ UL-certified when a Class 2 power supply unit is used (tested according to UL 1310).

MTBF	20,000 h
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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 ... 20 (Standard decoder) 1 ... 6 (SMART decoder)
No. of codes per reading interval	1 ... 50 (auto-discriminating)
No. of characters per reading interval	500
No. of multiple readings	1 ... 99

Interfaces

Digital inputs	2 ("Sensor 1", "Sensor 2")
Digital outputs	2 ("Result 1", "Result 2")
Reading pulse	Switching input "Sensor 1", non-powered, serial interface
Optical indicators	4 LEDs (function indicator)
Acoustic indicators	Beeper/buzzer (can be switched off, can be allocated as a result indication function)

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-4 / EN 61000-6-1 / EN 61000-6-2
Vibration resistance	IEC 68-2-6 Test FC
Shock resistance	IEC 68-2-27 Test EA
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
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Classifications

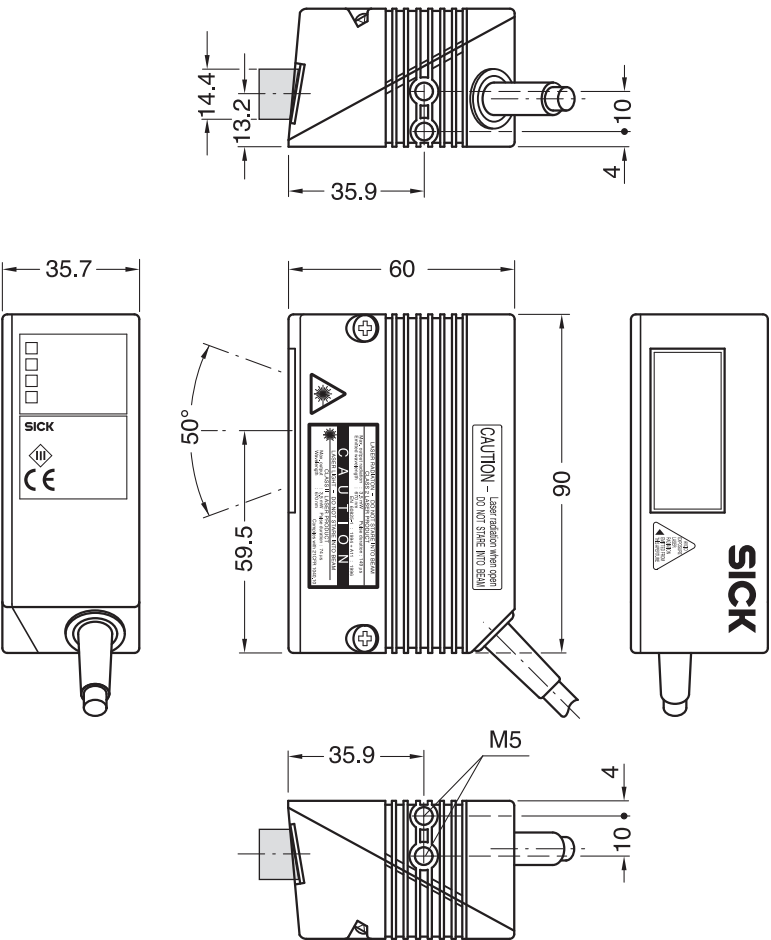
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550

ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

Certificates

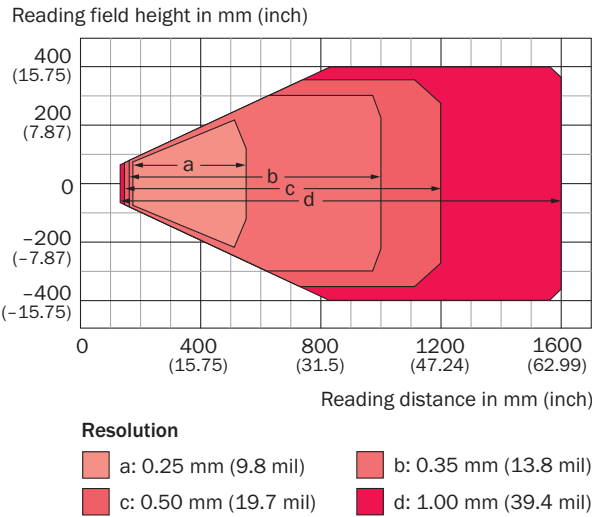
EU declaration of conformity	✓
China RoHS	✓

Dimensional drawing CLV43x/44x/45x front



Dimensions in mm (inch)

Reading field diagram



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