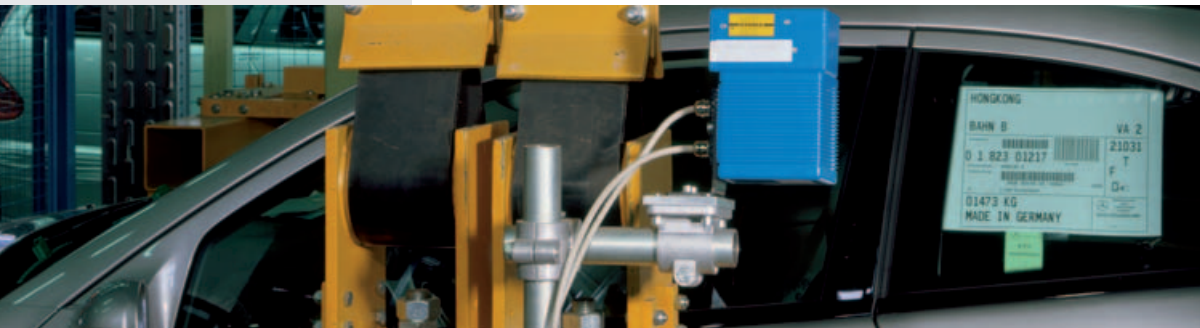


CLV490

The high-performance bar code scanner



The CLV490 ensures maximum, tilt-independent read rates with minimum code height. The real-time autofocus function provides optimum read rates at maximum depths of field (DOF), since the device is always focused in accordance with the distance of the bar code.

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INCORPORATED

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Your benefits:

- Enhanced reading performance compared with existing SICK bar code scanners of the same size
- No additional components required to detect the object distance
- Extremely high depth of field even for smallest module widths thanks to the real time autofocus function
- External memory (connector) means that parameters do not have to be redefined each time the scanner is changed

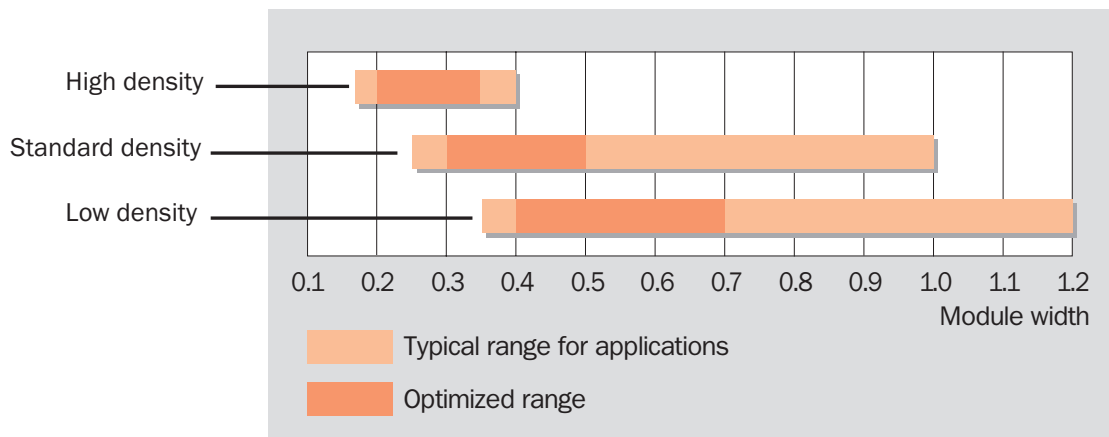
The CLV490 at a glance:

- Real time autofocus function
- High density, standard density, low density
- Label tilt from -45° to $+45^{\circ}$
- Reliable code recognition using SMART technology
- Smallest unit in its class
- Additional interface for external parameter memory
- Flash PROM for firmware
- Available as line scanner or line scanner with oscillating mirror
- Optional heater

Technical data

Type	CLV490
Design	Line scanner, options: with oscillating mirror, heating
Resolution	Standard density, high density, low density
Light source	Laser diode, red light ($\lambda = 650 \text{ nm}$)
Laser class	2 (to EN 60825-1)
Ambient light compatibility	2,000 lx (on bar code)
Scanning/decoding frequency	600 ... 1,200 Hz
Aperture angle	Max. 60° (max. 50° with oscillating mirror)
Operation and parametrization	With Windows-based CLV-Setup software or command strings
Indicators	4 LED (status indicators)
Data interface	Host: RS-232, RS-422/485; terminal: RS-232
Switching inputs/outputs	6 x IN / 4 x OUT
Operating voltage	18 ... 30 V DC ¹⁾ (24 V DC + 20 %/- 10 % with heating)
Power consumption	Line scanner: typical 11 W, max. 16 W
	typical 75 W, max. 90 W (with heating)
	Line scanner with oscillating mirror: typical 13 W, max. 18 W
	typical 75 W, max. 100 W (with heating)
Electrical connections	2 x 15-pin D Sub-HD plug/socket
Housing	Die-cast aluminium
Enclosure rating	IP 65 (to DIN 40 050)
Protection class	Class 3 (to VDE 0106)
EMC test	To EN 50081-1, EN 50082-2
Weight	Approx. 1.5 kg (line scanner)/2.2 kg (with oscillating mirror)
Temperature (ambient operating/storage)	0 ... +40 °C (-35 ... +35 °C with heating)/-20 ... +70 °C

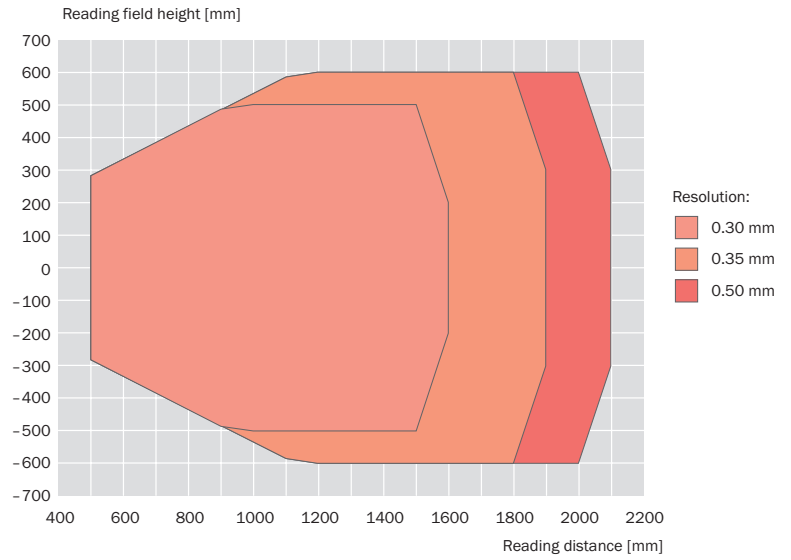
¹⁾ UL certificated when a class 2 power supply according to UL 1310 is used



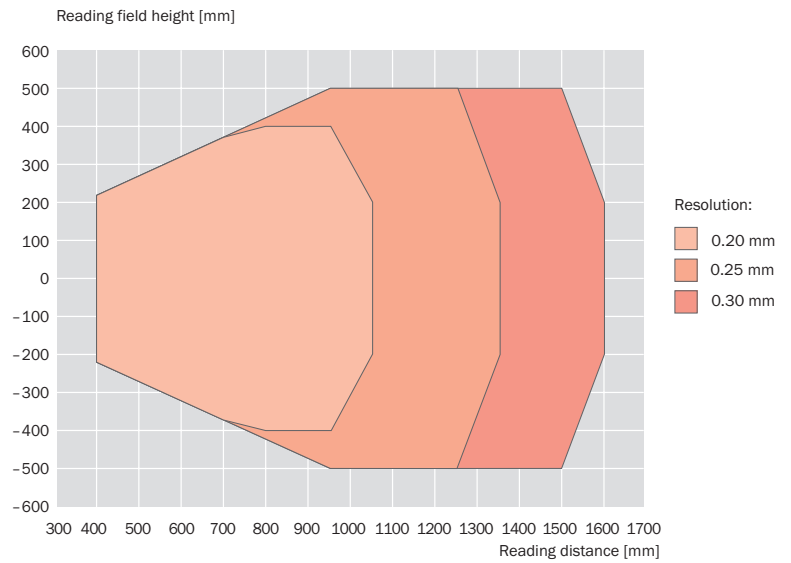
Application ranges for the variants as a function of module width

Line scanners

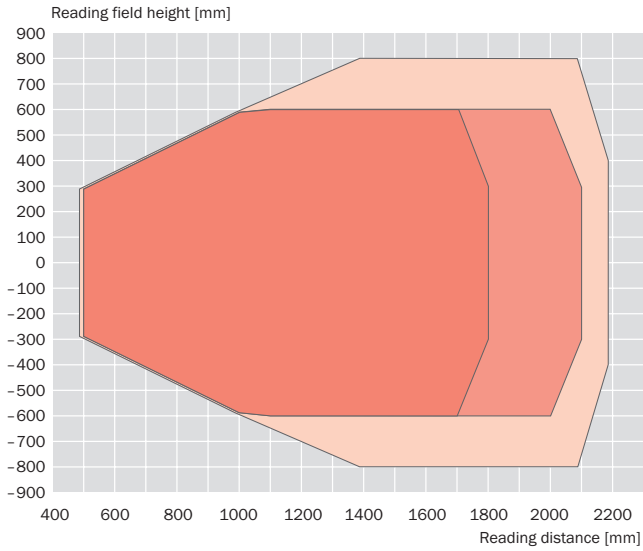
CLV490 Standard Density



CLV490 High Density

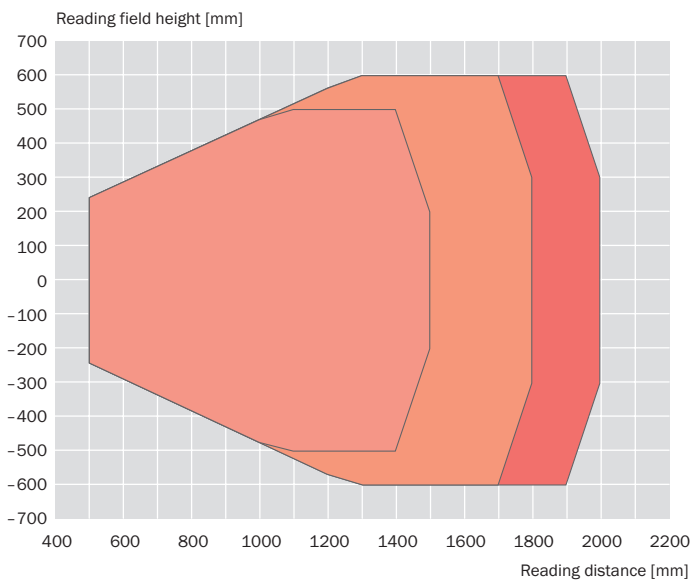


Line scanners



CLV490 Low Density

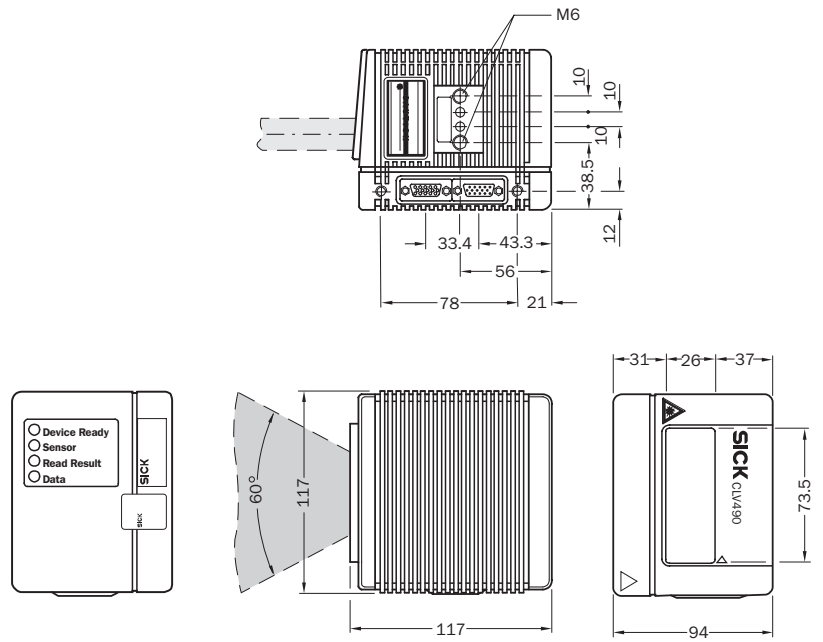
Line scanner with oscillating mirror



CLV490 Standard Density

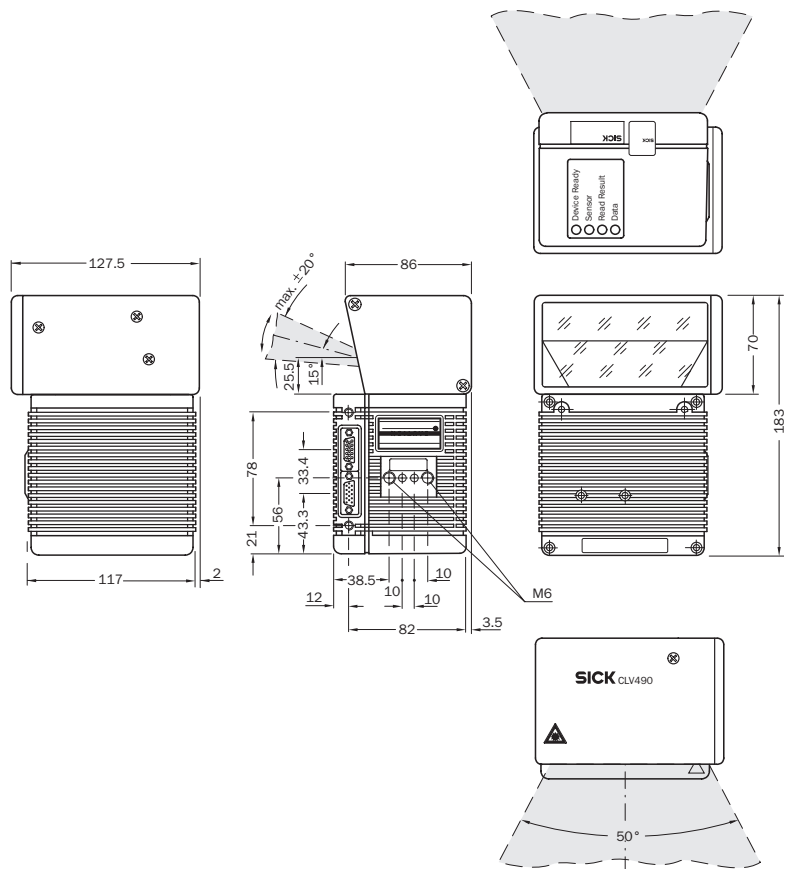
Dimensional drawings

Line scanner



All dimensions in mm

Line scanner with oscillating mirror



Order information

Standard Density

Type	Description	Order no.
CLV490-0011	Line, straight light exit, with heating	1016960
CLV490-1011	Line, oscillating mirror, with heating	1016961

High Density

Type	Description	Order no.
CLV490-2011	Line, straight light exit, with heating	1019312
CLV490-3011	Line, oscillating mirror, with heating	1019314

Low Density

Type	Description	Order no.
CLV490-6011	Line, straight light exit, with heating	1019095
CLV490-7011	Line, oscillating mirror, with heating	1019096

Standard Density

Type	Description	Order no.
CLV490-0010	Line, straight light exit	1016958
CLV490-1010	Line, oscillating mirror	1016959

High Density

Type	Description	Order no.
CLV490-2010	Line, straight light exit	1019311
CLV490-3010	Line, oscillating mirror	1019313

Low Density

Type	Description	Order no.
CLV490-6010	Line, straight light exit	1018872
CLV490-7010	Line, oscillating mirror	1019094

Accessories

Accessories can be found on Page 218