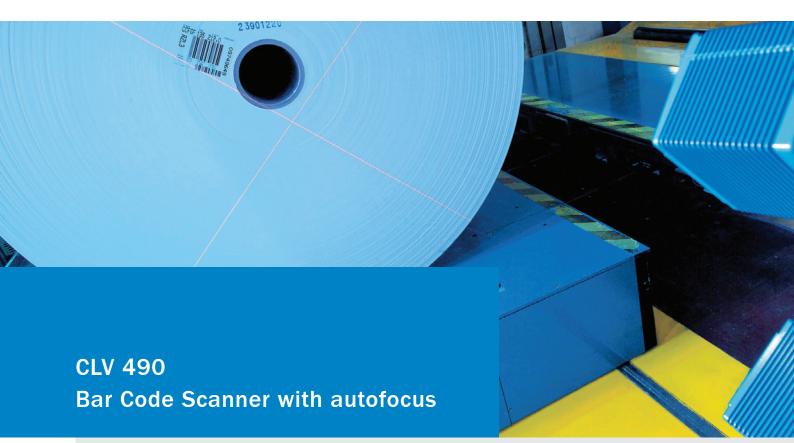
PRODUCT INFORMATION



Advanced Line



Real-time AUTOFOCUS.

The CLV 490 from SICK

The CLV 490 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.



Line scanner

Maximum power in a compact design:

- Real-time AUTOFOCUS function
- High density, standard density, low density
- Label tilt from -45° ... +45°
- 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



- 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

With SMART Code Recognition Technology

🗍 CLV Setup - [No File] - [CLV490]				_ 🗆 ×
File CLV490 Tools Project View				_ 8 ×
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CUV490 CUV490 CUV490 Covec Corr. Covec Covec.	Device Corf. Host Interf. D Device No: Device No: Peading Trigger Souce G Sensor Input (Active High) C Sensor Input (Active Low) Senial Interface Free Running with Timeout Object Poling OPC Trigger OUtput on Good Read G End of Reading Gate End of Label	ata Strings Aux Interf. CAN Interf. Result Output Parameters Reading Trigger Parameters Scanner Position Parameters Scanner Position Parameters Trocking Parameters Object Poling Parameters Distance per o 1/100 mm Internal Tracking active Assignments of Inputs IN3: Focus Control IN3: Focus Control IN4: Focu	Scanner Arrangement Stand-alone Master Slave Noniter of 6lovey Mester Timeout (ms) 200 Odette Filter active Edit Start with Internal Parameters Copy intern -> extern	
COM1.0000,11,0,1		Connected:		

Easy to operate and configure with the CLV Setup program



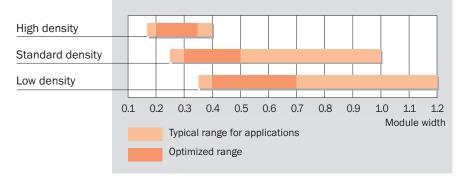
Line scanner with oscillating mirror

- OMNI applications
- Applications with large object distances/depth of field (DOF)
- Grid box/pallet applications
- Object identification in boxes
- Tasks in parcel and courier services



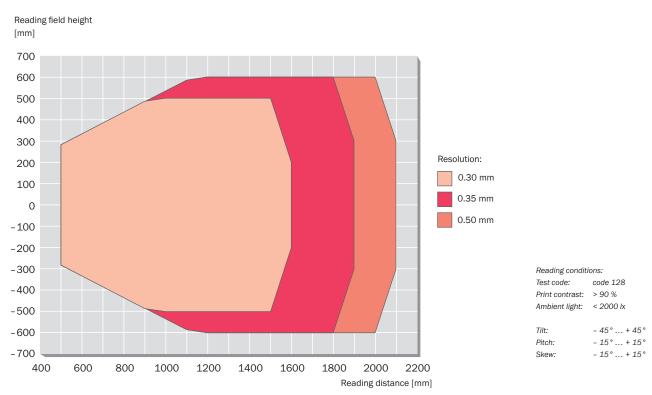






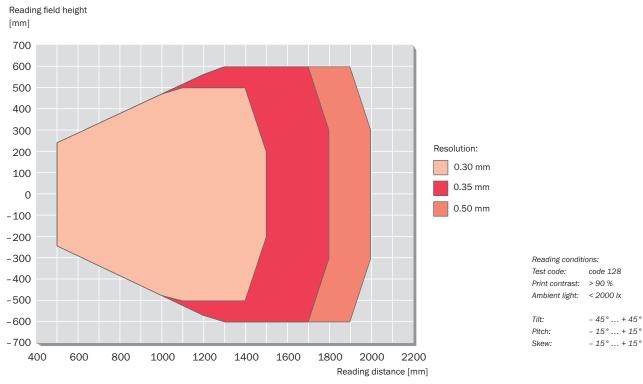
Application ranges for the variants as a function of module width

Line scanner. (standard density)



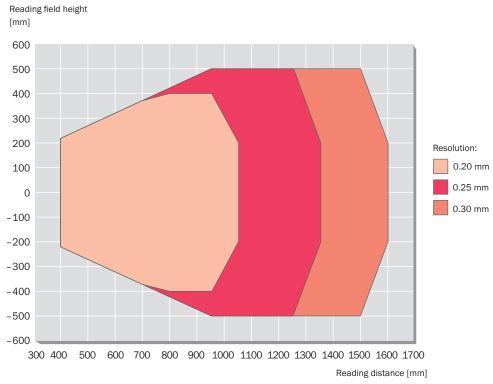
Reading field diagram CLV 490 line scanner: standard density

Line scanner with oscillating mirror. (standard density)



Reading field diagram CLV 490 line scanner with oscillating mirror: standard density

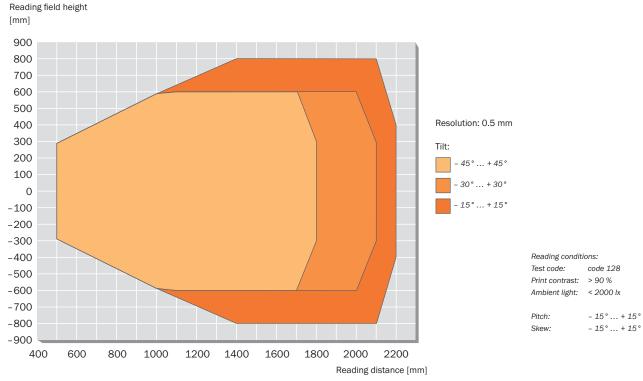
Line scanner. (high density)



Reading conditi	ions:
Test code:	code 128
Print contrast:	> 90 %
Ambient light:	< 2000 lx
Tilt:	- 45°+45°
Pitch:	- 15°+15°
Skew:	- 15°+15°

Reading field diagram CLV 490 line scanner: high density

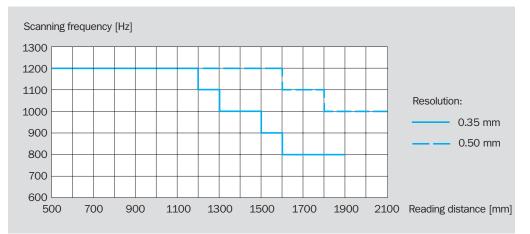
Line scanner. (low density)



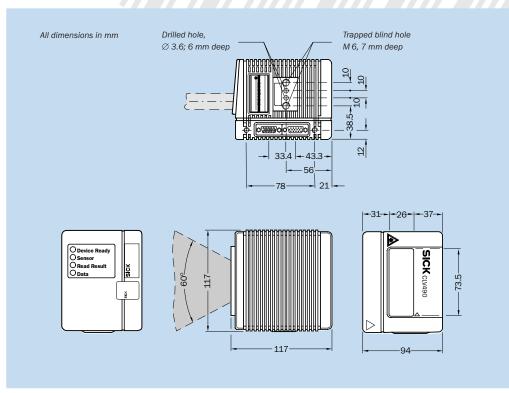
Reading field diagram CLV 490 line scanner: low density

Line scanner. Line scanner with oscillating mirror. (standard density)

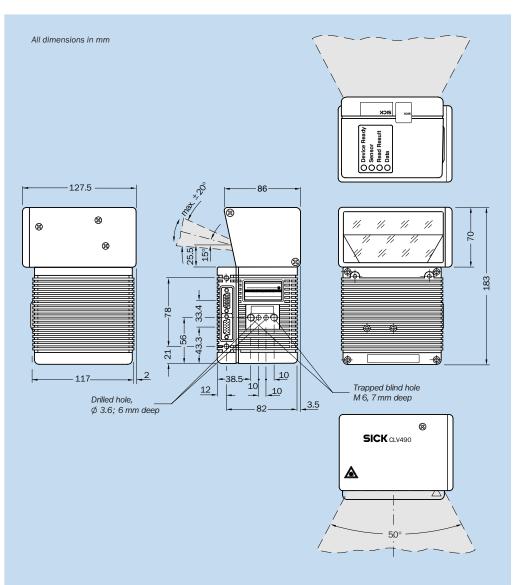
Reading distance as a function of the scanning frequency for line scanner



CLV 490 Bar-Code Scanner				
Design	Line scanner, options: with oscillating mirror, heating			
Resolution	Standard density, high density, low density			
Light source	Laser diode, red light (λ = 650 nm)			
Laser class	2 (to EN 60825-1)			
Ambient light compability	2000 lx (on bar code)			
Scanning/decoding frequency	600 1200 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 (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 withtypical 13 W, max. 18 Woscillating mirror: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 61000-6-2, EN 61000-6-3			
Weight	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			



Dimensional drawing CLV 490 line scanner



Dimensional drawing CLV 490 line scanner with oscillating mirror

INDUSTRIAL SENSORS

Our complete range of sensors provides answers to suit any application in the field of automation. Even under rugged ambient conditions objects are reliably detected, counted and positioned in respect of their form, location and surface finish, as well as their distances established with pin-point accuracy.

INDUSTRIAL SAFETY SYSTEMS

Comprehensive safeguarding of both personnel and machinery! As specialists in Sensor Technology, SICK develops and manufactures pioneering products for providing protection in hazardous zones, dangerous locations and for safeguarding access points. By providing services, which encompass all aspects of machine safety and security, SICK is setting new standards in Safety Technology.

AUTO IDENT

Whether the tasks involve identification, handling, classification or volume measurement, innovative Auto Ident systems and laser measuring systems function extremely reliably, even under rapid cycle times. They conform to the latest Standards and can be simply and speedily integrated in all industrial environments and external applications.

ANALYZERS AND PROCESS INSTRUMENTATION

System control, maintaining setpoints, optimising process control and monitoring the flow of materials – the instruments and services for Analysis and Process Measurement, supplied by SICK MAIHAK, are setting the standards for these applications in terms of Technology and Quality.









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