

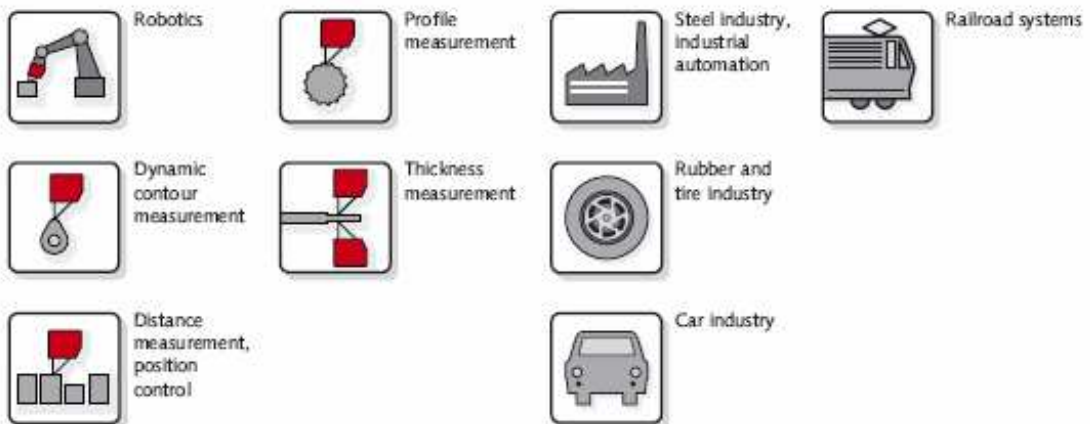
Laser distance sensor

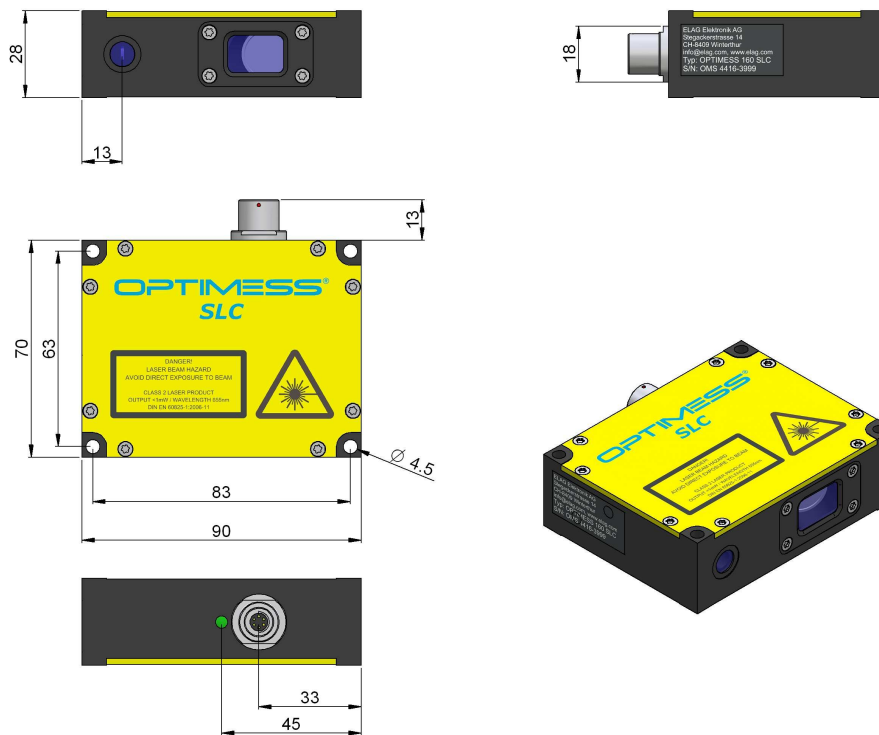
OPTImess SLC



The **OPTImess SLC** opto-electronic sensor serves for distance measurements without contact. This sensor features a measuring accuracy which is largely independent of different surfaces and ambient light.

The **OPTImess SLC** operates according to the triangulation principle. The laser point transmitted by a laser diode using an optic is projected onto a CCD line at an angle by a receiver optic. The processor integrated into the sensor processes the optical distance information and outputs it as an analogue value or via the CAN bus.





Type	OMS 4402	OMS 4404	OMS 4408	OMS 4416
Measuring range [mm]	20	40	80	160
Stand off [mm]	50	80	130	200
Resolution [mm] [1]	0.005	0.010	0.020	0.040
Linearity	≤ 0.08% of range			
Reproducibility	≤ 0.04% of range			
Bandwidth [2]	8 kHz max.			
Filter [2]	Digital averaging			
Measuring rate [2]	8 kHz max.			
Light source	laser diode			
Spot diameter [2]	0.05 – 2 mm			
Wave length [2]	660			
Laser safety class [2]	2 / 3R / 3B			
Photo detector	CMOS linear image sensor			
Supply voltage	± 15V / 120mA, ± 5% or 12 - 30V / 120mA [3]			
Output [2]	± 5V / ± 10V / 0 - 5V / 0 - 10V / 0 - 20mA / 4 - 20mA / CAN - Bus			
Operating temperature	-20°C up to 50°C - no condensation			
Dimensions	90 x 70 x 28mm			
Weight	ca. 250g			
Protection class	IP 65			

[1] standard setting for filter 200Hz

[3] only unipolar output and CAN Bus

[2] set at the factory according to the application



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