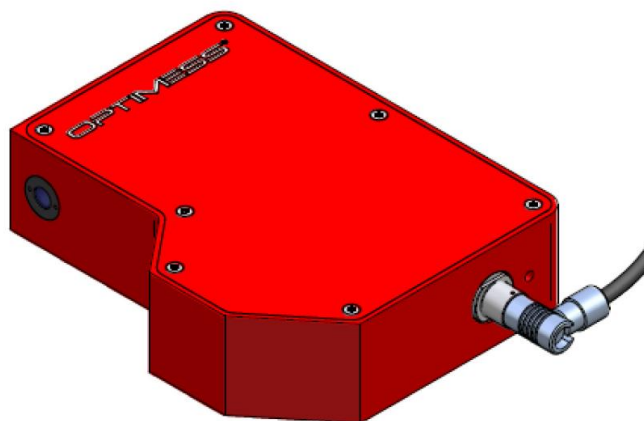


Laser distance sensor

OPTImess MSR CCD

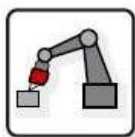


- High measuring rate
- High accuracy
- Digital processing of measured values
- Analog output or CAN bus

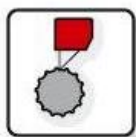
The opto-electronic sensor OPTImess MSR CCD is a special design of the OPTImess M and is a device for no-contact distance measurement. This sensor distinguishes itself by a great independence of the measurement accuracy on different material surfaces and from the ambient light.

The OPTImess MSR CCD works according to the triangulation principle. The laser spot projected by a laser diode via an optical system is represented at an angle on a CCD line by a receiving optical system. The processor integrated in the sensor processes the optical distance information and outputs them as an analogue value or via the CAN bus.

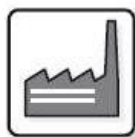




Robotics



Profile
measurement



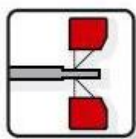
Steel industry,
industrial
automation



Railroad systems



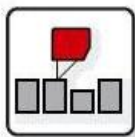
Dynamic
contour
measurement



Thickness
measurement



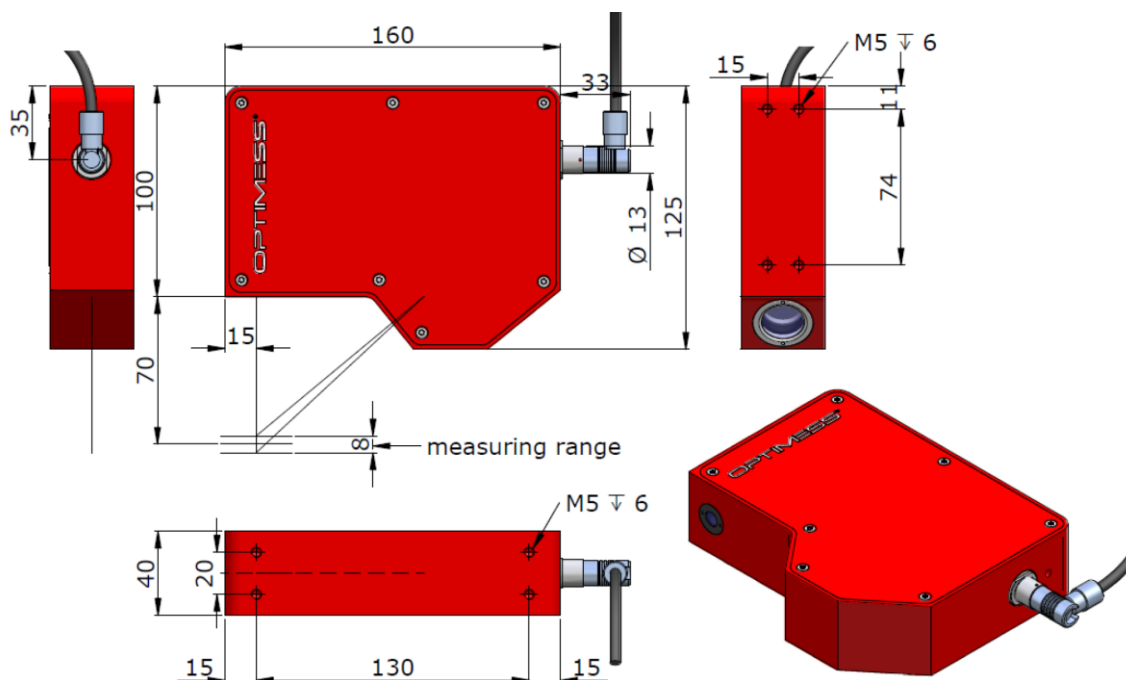
Rubber and
tire industry



Distance
measurement,
position
control



Car industry



Type	OMS 8005	OMS 8006	OMS 8009
Measuring range [mm] *	4	6	8
Stand off [mm] *	70	70	70
Resolution [mm] *	0,00025	0,0004	0,0005
Linearity *	$\leq \pm 0.06\%$ of range		
Reproducibility	$\leq \pm 0.03\%$ of range		
Bandwidth *	50 kHz max.		
Filter *	Digital averaging		
Measuring rate *	20 kHz max.		
Light source	Laser diode		
Spot diameter *	0.05 - 2mm		
Wave length *	400 - 790nm		
Laser safety class *	2 / 3R / 3B		
Photo detector	CCD linear image sensor		
Supply voltage	$\pm 15V / 120mA$, $\pm 5\%$ or $12 - 30V / 120mA$ [4]		
Output *	$\pm 5V / \pm 10V / 0 - 5V / 0 - 10V / 0 - 20mA / 4 - 20mA / CAN - Bus$		
Operating temperature	$-20^{\circ}C$ up to $50^{\circ}C$ – no condensation		
Dimensions	160 x 100 x 40mm		
Weight	ca. 1,1kg		
Protection class	IP 65		

[1] Standard settings with filter 200Hz

[3] Other types upon request

[2] Factory-set depending on the application

[4] only unipolar output and CAN Bus

* Factory-set depending on the application