



Overview

- measurement rate up to 4 kHz
- lightweight
- small housing, IP 67
- insensitive to sunlight
- analog output or CAN Bus

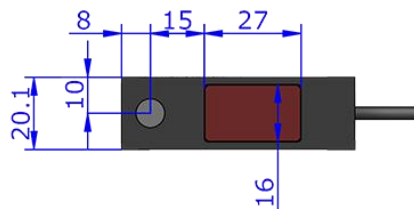
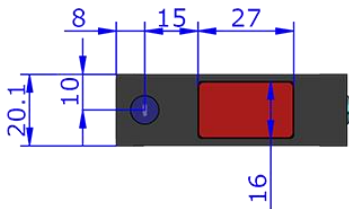
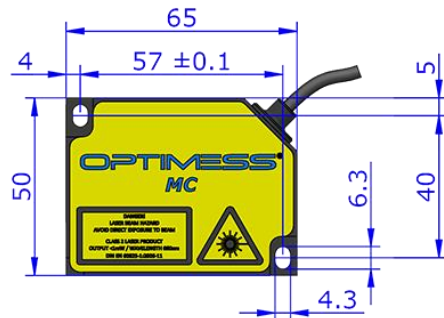
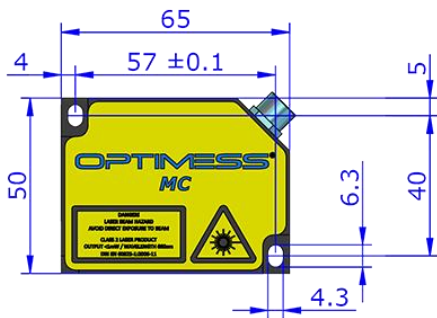
The sensor OPTIMESS MC operates according to the triangulation principle. Thanks to the small dimensions and its light weight, the sensor is particularly suited for driving dynamics measurement on road vehicles or in racing. This sensor is characterized by a high degree of independence of measurement accuracy on different surfaces and from ambient light. The processor integrated in the sensor processes the optical distance information and outputs it as an analog value or via the CAN bus. An integrated connection cable is also available as an option.

Type OMS	4104	4108	4110	4120	4122	4123	4132	4140	4141
Measurement range [mm]	40	80	100	200	200	200	300	400	400
Standoff [mm]	60	70	80	150	300	340	400	300	400
Resolution [mm] *	0.02	0.03	0.04	0.06	0.1	0.1	0.1	0.1	0.15
Repeatability	≤ 0.05 %								
Linearity	≤ ± 0.3 %								
Max. measurement rate	4 kHz								
Dimensions	65 x 50 x 20 mm								
Weight	95 g								

* Measurement rate ≤ 4 kHz

General specifications

OPTIMESS 1D		
Environmental conditions	Temperature range	-20°C bis 60°C
	Humidity	5% - 95%, non-condensing
	Protection type	IP67 (even when unplugged)
	Ambient light	> 100,000 lux (sunlight)
	Vibration	10-100Hz, 2mm
	Shock	15 G / 6ms, EN 60068
	Environment, safety	EN 50155
	Certifications	CE
Laser	Laser protection class	2, 3R
	Wave lengths	660 nm
Connections	Supply voltage	12 - 32 V DC
	Power	2 W
	Output / APIs	0-5V / 0-10V / CAN Bus



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