## **Laser Distance Sensor**

**OPTImess MMR CCD (large measuring range)** 



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

The opto-electronic sensor **OPTI***mess* **MMR** is a device for non-contact distance measurement especially for bigger distances. This sensor distinguishes itself by a great independence of the measurement accuracy on different material surfaces and of the ambient light.

The **OPTI***mess* **MMR** 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.







Measuring range [mm]	900	1260
Stand off [mm]	1100	1630
Resolution [mm] [1]	0,22	0,8
Linearity	≤ 0.2% FSO	
Reproducibility	≤ 0.08% FSO	
Bandwidth [2]	16 kHz max.	
Filter [2]	digital, averaging	
Measuring rate [2]	20 kHz max.	
Light source	Laser diode	
Spot diameter [2]	0.05 - 5mm	
Wave-length [2]	660 - 780nm	
Laser safety class [2]	3R / 3B	
Photo detector	CCD linear image sensor	
Supply voltage	± 15V / 150mA, tolerance ± 5% or 10 - 30V (only 05V output)	
Output [2]	± 5V / ± 10V / 0 - 5V / 0 - 10V / 0 - 20mA / 4 - 20mA / CAN - Bus	
Operating temperature	-20°C to 50°C non condensation	
Dimensions	160 x 100 x 40mm	
Weight	ca. 1000g	
Protection class	IP 65	

[1] Standard settings with filter 20Hz [2] Factory-set depending on the application



Hildesheimer Straße 140 D-30173 Hannover Fon +49 511 51 26 65 Mail info@drwehrhahn.de

 Fon
 +49 511 51 26 65
 Mail
 info@drwehrhahn.de

 Fax
 +49 511 52 21 52
 Web
 www.drwehrhahn.de