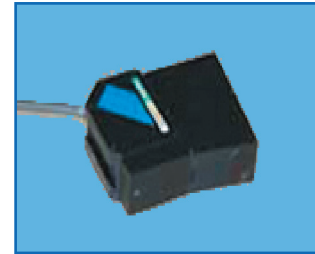


Laser-Triangulation Measurement Systems & Sensors



High-Resolution distance sensor with large measurement range and working distance

Non-contact distance measurement in the quality inspection, testing, classifying and positioning

Optical sensor allow contactless the rapid and accurate determination of the distance between the sensor and an arbitrarily shaped examinee.

The distance sensors ensure the highest resolutions, regardless of material and surface properties.

The measurement is made punctual. The measuring point is visible. Despite lower dimensions, the entire electronics integrated in the sensor. The following process is via its interface with an integrated power supply and fieldbus interface. The interface can be 2 distance sensors, in combination with other optical sensors (width, length, diameter, etc.).

Sensor		High resolution				High range		
Typ	hR	-160-..	-275-..	-620-..	-900-..			
Meas. Range	mm	± 5	± 15	± 60	± 150	± 100	± 215	special request
Operating distance middle sensor measuring	mm	158,2	276,5	611,6	874,8	288,5	625	
Resolution	µm	0,5	1	5	10	4	8	0,01%
Linearity error	µm	1	2	5	10	10	20	0,01%
Measurement point diameter	mm	0,2	0,4	0,6	1,2	0,4	0,6	
Measuring rate	≤ 10 kHz							
Light source	laser diode red 675 nm							
Laser protection class	2							
Interface connection Box PC-Board Evaluating unit	3 m flexible acid proof cable							
Output connection box	RS 485; any fieldbus							
Extraneous light	≤ 30.000 lx							
Operating time	laser diode 50.000 h							
Working temperature	0 to + 40 °C							
Protection class	IP 64, or more							
Power supply	Interface or connection box							
Dimensions mm	L	178	168	166	210			
	H	132	128	129	136			
	B	40	40	40	40			
Weight	≤ 1,3 kg							

