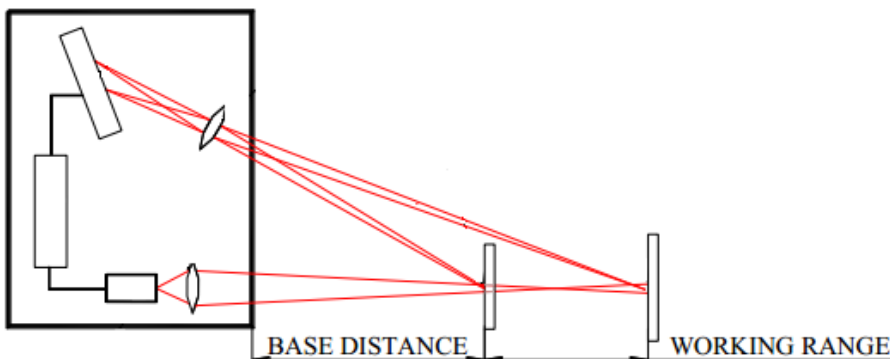


LASER TRIANGULATION SENSOR

RF 605 SERIES



- ✓ Economical laser displacement measurement system
- ✓ Measurement ranges from 50mm to 500mm
- ✓ Resolution to 0.02% of full range, up to 5 μ m
- ✓ Linearity to 0.1% of full scale range, up to 25 μ m
- ✓ Industrial enclosure to IP67 rating
- ✓ Frequency response to 2000Hz
- ✓ Analogue 0 to 10V or 4 to 20mA output
- ✓ Range of digital outputs including RS232 or RS485
- ✓ Fully self contained unit, compact dimensions and light weight



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IXTHUS
Instrumentation

Technical datasheet

RF605-		25/50	45/100	65/250	105/500
Base Distance X mm		25	45	65	105
Measurement range mm		50	100	250	500
Linearity %		±0.1%			
Resolution %		0.02%			
Temperature drift		0.02% of the range/°C			
Max measurement frequency Hz		2000Hz			
Light source		Red semiconductor laser, 660nm wavelength			
Output power		≤0.95mW			
Laser safety class		2 (IEC60825-1)			
Output interface	Digital	RS232 (max. 460.8kbit/s) or RS485 (max. 921.6 kbit/s)			
	Analogue	2...20mA (≤500Ω load) or 0...10V			
Synchronisation output		2.4-5V (CMOS, TTL)			
Logic output		Program functions, NPN: 100mA max; 40V max for output			
Power supply V		9...36V			
Power consumption		1.5...2W			
Environmental ratings	Enclosure rating	IP67 (for sensors with cable output only)			
	Vibration	20g/10...1000Hz, 6 hours, for each XYZ axis			
	Shock	30g / 6ms			
	Operating temperature °C	-10...+60°C			
	Permissible ambient light lux	7000			
	Relative humidity	35-85% (no condensation)			
Storage temperature °C		-20...+70°C			
Housing material		Aluminium			
Weight (without cable)		60 grams			

