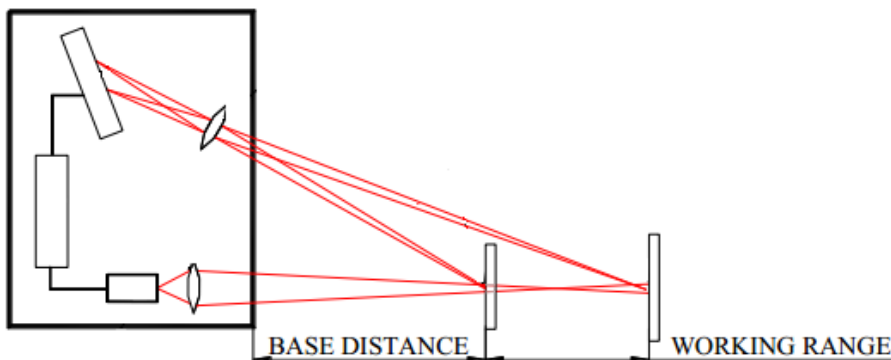


LASER TRIANGULATION SENSOR

RF 603HS SERIES



- ✓ Measurement ranges from 2mm to 1250mm
- ✓ High speed frequency response up to 180KHz
- ✓ Resolution up to 0.01% of full scale range
- ✓ Linearity up to 0.1% of full scale range
- ✓ Industrial enclosure to IP67 rating
- ✓ Digital Ethernet output
- ✓ Fully self contained unit, compact dimensions and light weight



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IXTHUS
Instrumentation

Technical datasheet

RF603-HS		X/2	X/5	X/10	X/15	X/25	X/30	X/50	X/100	X/250	X/500	X/750	X/1000	X/1250	
Base Distance X mm		10	15	15, 25, 60	15, 30, 65	25, 45, 80	35, 55, 95	45, 65, 105	60, 90, 140	80	125	145	245	260	
Measurement range mm		2	5	10	15	25	30	50	100	250	500	750	1000	1250	
Measurement frequency kHz		50, 110, 180kHz													
Linearity %		±0.1% (56kHz), ±0.2% (110kHz), ±0.3% (180kHz) of the range													
Resolution %		0.1% (56kHz), 0.2% (110kHz), 0.3% (180kHz) of the range													
Temperature drift		0.02% of the range/°C													
Light source		Red semiconductor laser, 660nm wavelength or UV semiconductor laser 405nm wavelength (Blue version)													
Output power		≤4.8mW								≤20mW					
Laser safety class		3R (IEC60825-1)								3B(IEC60825-1)					
Output interface	Parameterisation	RS232 or RS485													
	Data transfer	Ethernet (UDP)													
Synchronisation output		optocoupled													
Power supply V		9...36V													
Power consumption		2.5W													
Environmental ratings	Enclosure rating	IP67													
	Vibration	20g/10...1000Hz, 6 hours, for each XYZ axis													
	Shock	30g / 6ms													
	Operating temperature °C	-10...+60°C -30...+60°C for sensor with in-built heater -30...+120°C for sensors with in-built heaters and air cooled housing													
	Permissible ambient light lux	30000 Lux													
	Relative humidity	5-95% (no condensation)													
	Storage temperature °C	-20...+70°C													
Housing material		Aluminium													
Weight (without cable)		130 grams													

