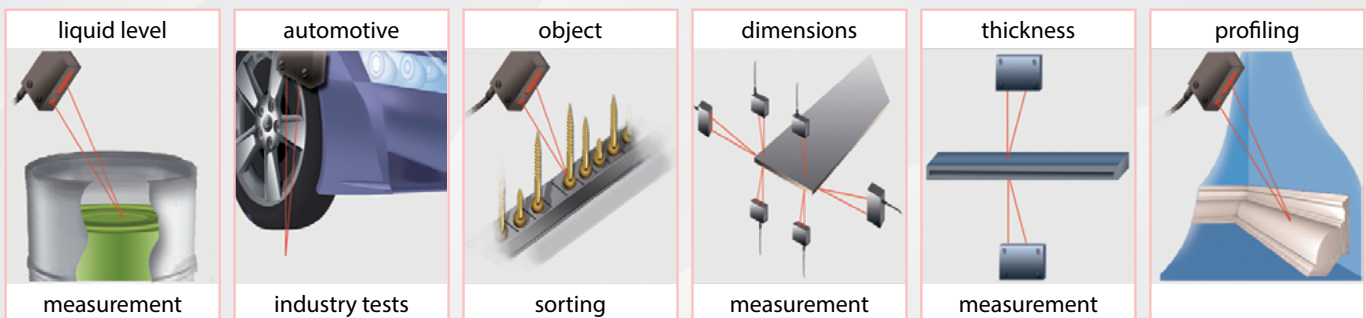


Position, dimensions, surface profiles, deformations, vibrations measurement, sorting and sensing presence or absence



- Compact laser sensors
- Measuring ranges from 50 to 500 mm
 - Linearity $\pm 0.1\%$
 - Resolution $\pm 0.02\%$
- Sampling rate up to 2000 Hz
- RS232/RS485 +4...20 mA/0...10V

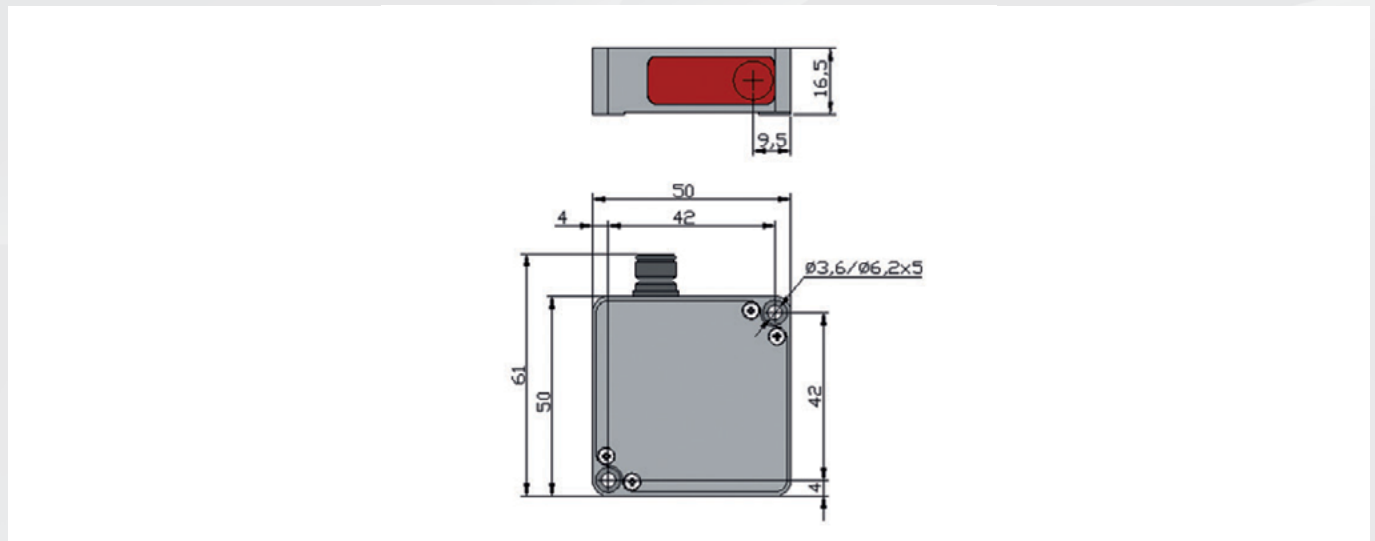


BASIC TECHNICAL DATA

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 of the range			
Linearity, μm	50	100	250	500
Resolution, %	0.02 of the range			
Resolution, μm	10	20	50	100
Temperature drift	0,02% of the range/ $^{\circ}\text{C}$			
Max. sampling frequency, Hz	2000			
Light source	red semiconductor laser, 660 nm wavelength			
Output power, mW	$\leq 0,95$ mW			
Laser safety Class	2 (IEC60825-1)			
Output interface	digital	RS232 (max. 460,8 kbit/s) or RS485 (max. 460,8 kbit/s)		
	analog	4...20 mA ($\leq 500 \Omega$ load) or 0...10 V		
Synchronization input	2,4 – 5 V (CMOS, TTL)			
Logic output	programmed functions, NPN: 100 mA max; 40 V max for output			
Power supply, V	24 (9 ...36)			
Power consumption, W	1,5..2			
Environment resistance	Enclosure rating	IP67 (for sensors with cable connector only)		
	Vibration	20g/10...1000Hz, 6 hours, for each of XYZ axes		
	Shock	30 g / 6 ms		
	Operation temperature, $^{\circ}\text{C}$	-10...+60		
	Relative humidity	35-85%		
Storage temperature, $^{\circ}\text{C}$	-20...+70			
Housing material	aluminum			
Weight (without cable), gram	60			

OVERALL DIMENSIONS

Sensors are equipped by cable gland or connector.



EXAMPLE OF DESIGNATION WHEN ORDERING

RF605-X/D-SERIAL-ANALOG-IN-AL-CC(R)-M

Symbol	Description
X	Base distance (beginning of the range), mm
D	Measurement range, mm
SERIAL	Type of serial interface: RS232 - 232, or RS485 - 485
ANALOG	Attribute showing the presence of 4...20 mA (I) or 0...10V (U)
IN	Trigger input (input of synchronization) presence
AL	Programmed signal, which has triple purpose. It can be used as 1) logical output (indication of run-out beyond the range) 2) line of mutual synchronization of two and more sensors 3) line of hardware zero setting
CC(R)	Cable gland - CG, or cable connector - CC (Binder 702, IP67) Note 1: R option – robot cable
M	Cable length, m
Example. RF605-105/500-232-I-IN-CG-3 –base distance – 105 mm, range – 500 mm, RS232 serial port, 4...20mA analog output, trigger input is available, cable gland, 3 m cable length.	