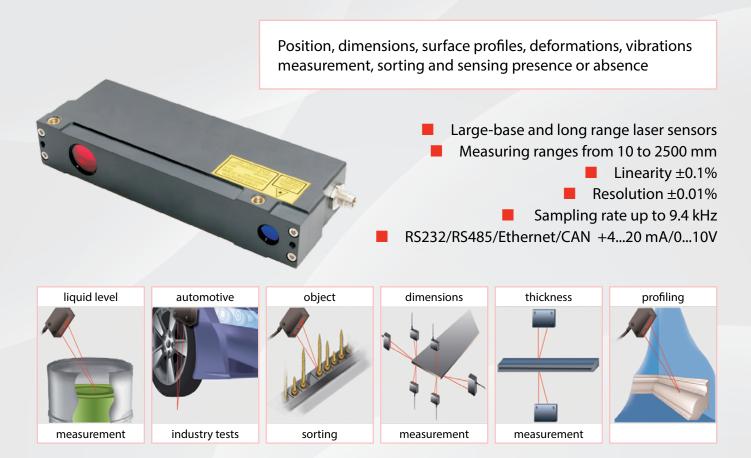


LASER TRIANGULATION SENSORS RF600 SERIES



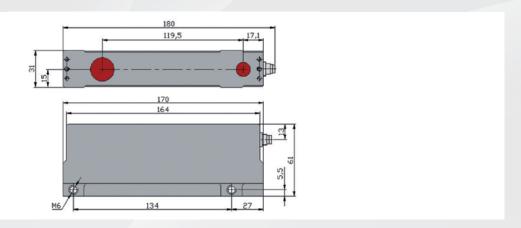
BASIC TECHNICAL DATA

RF600-			X/10	X/30	X/40	X/100	X/250	X/500	X/600	X/1000	X/1000	X/1500	X/2000	X/2500	
Base distance X, мм			230	300	330	500	230	300, 1000	230	1300	380	390	410	420	
Measurement range, mm			10	30	40	100	250	500	600	1000	1000	1500	2000	2500	
Linearity, %			±0.1 of the range										±0.2		
Resolution, %			0.01 of the range (for the digital output only)										0.03		
Temperature drift			0,02% of the range/°C												
Max. measurement frequency, Hz			9400												
Light source			red semiconductor laser, 660 nm wavelength or												
			UV semiconductor laser 405 nm wavelength (BLUE version)												
	output power		≤4,8 mW										≤20 mW		
	laser safety Class		s	3R (IEC60825-1)										3B (IEC60825-1)	
Output			digital	RS232 (max. 460,8 kbit/s) or RS485 (max. 921,6 kbit/s) or RS232 and CAN V2.0B (max 1Mbit/s) or Ethernet and (RS32 or RS485)											
interface			analog	420 mA (£500 Ω load) or 010 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		936											
Power consumption, W			1,52												
	Enclosure rating		IP67 (for the sensors with cable connector only)												
¥		Vibration		20g/101000Hz, 6 hours, for each of XYZ axes											
Environment	ĕ	Shock		30 g / 6 ms											
	sta	Operation temperature, °C		-10+60, (-30+60 for the sensors with in-built heater)											
	.es	Permissible ambient light, lx		30000											
	_	Relative	humidity	5-95% (no condensation)											
	Storage temperature, °C				-20+70										
Housing material			Aluminum												
Weight (without cable)			500 gram												



OVERALL DIMENSIONS

Sensors are equipped by cable gland or connector.



EXAMPLE OF DESIGNATION WHEN ORDERING

RF600(BLUE)-X/D-SERIAL-ANALOG-IN-AL-CC(90X)(R)-M-H

Symbol	Description						
(BLUE)	Blue (405 nm) laser option						
х	Base distance (beginning of the range), mm						
D	Measurement range, mm						
SERIAL	The type of serial interface: RS232-232 or RS485-485 or (CAN and RS232) - CAN, or (Ethernet and RS232) – ET-232 or (Ethernet and RS485) - ET-485						
	Attribute showing the presence of 420 mA (I) or 010V (U)						
ANALOG	Note: 1) I output – only for sensors with RS232 or RS485						
	2) U output – only for sensors with RS232 or RS485 or CAN						
IN	Trigger input (input of synchronization) presence						
	User programmed signal, which has several purposes. It can be used as						
	1) logical output (indication of run-out beyond the range)						
AL	2) line of mutual synchronization of two and more sensors						
	3) line of hardware zero setting						
	4) hardware laser switch ON/OFF						
	Cable gland - CG, or cable connector - CC (Binder 712, IP67)						
	Note 1: sensors with CAN or Ethernet interfaces have 2 connectors and are available with cable						
CC(90X)(R)	connectors only (CC only)						
	Note 2: 90(X) option – angle cable connector						
	Note 3: R option – robot cable						
М	Cable length, m						
Н	Sensor with in-built heater						

Example. RF600-380/1000-232-I-IN-AL-CCR90A-3 – sensor with base distance – 380 mm, range – 1000mm, RS232 serial port, 4...20mA analog output, trigger input and AL input are available, cable con-nector, angle type, position "A", robot cable, 3 m cable length.

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