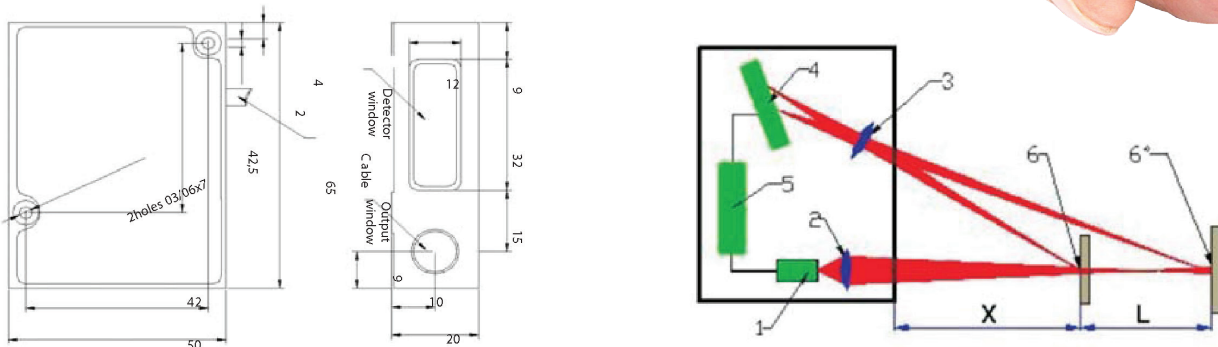


- Robust, miniature laser sensor provides high-speed analogue and digital outputs
- Sampling rates to 9.4 kHz
- Measurement range up to 1250 mm
- Fast frequency response
- Sealing to IP67
- Compact size

The RF603 series has been developed for demanding industrial applications as diverse as steel production and semiconductor fabrication where it is used for high speed precision position and displacement measurement from 2 mm to 1250 mm as well as vibration and surface profile measurement. A motorsports version is also available for applications such as ride height and car set-up.



Dimensions



Technical data

RF603 -	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	15	15 25 55	15 30 60	25 45 80	35 55 95	45 65 105	60 90 140	80	125	145	245	260
Measuring range (L) - mm	2	10	15	25	30	50	100	250	500	750	1000	1250
Linearity	+/-0.5% of the range											+/-
Resolution	0.01% of the range											0.02%
Max.sample rate	9.4 KHz*											
Laser type	1...3mW, wavelength 660nm						5mW, wavelength 660nm					
Digital Interface	RS232 (max. 460,8 kbiUs) or RS485 (max. 921,6 kbiVs) or RS232 and CAN V2.0B (max 1 MbiUs) or Ethernet and (RS32 or RS485)											
Analog Interface	4...20 mA or 0...10 V											
Synchronise input	2.4 – 5V (CMOS, TTL)											
Alarm output	NPN: 100mA max, 40V max											
Power supply V	9 ...36											
Power consumption - W	1.5...2											
Enclosure rating	IP67 (for sensors with cable connector only)											
Laser safety class	3R (IEC60825-1)											
Operating temperature °C	-10...+60 (-30 ...+60 with internal heater or -30...+120 with cooling housing)											
Shock - g	30											
Weight - g	100											
Cable options	CC – IP67 Connector with 3m cable connected, G – Permanently attached 3m cable, Other cable lengths available											

* Sampling rates: 60, 120, 180 kHz also available, please ask for more details.

Ordering information

(Please use the characters in the chart below to construct your product code)

Sample Code:

RF603 - 60/250 - 232 - U - IN* - AL* - CC - 3M - B

Series	Measuring range / Base distance	Digital output	Analogue output	Electrical connection	Cable length	Housing Options
RF603	Select code from table below X/L	232 = RS232 485 = RS485 232-CAN = RS232 / CAN 485-CAN = RS232 / CAN 232-ET = RS232 / Ethernet 485-ET = RS485 / Ethernet	I = 4 - 20 mA U = 0 - 10 V (0.5-4.5v) = 0.5-4.5 V	CC = Connector with 3m Cable CG = 3m Cable Note 1: CAN or Ethernet option has 2 cables/connectors (CC only) Note 2: Option 90(X) - Angled Cable connection (see manual) Note 3: Option (R) Robot Cable Specification	in metres	H = Built in Heater P = Air Cooling Housing B = Water Spray Guard

*IN = Synchronisation Input

*AL = User Programmable input/output signal

- Logical Output (indication of Run-out beyond range)
- Two or more laser sensors
- Hardware "zero" setting
- Hardware laser ON/OFF switch
- AL is not available for laser sensors with in-built heaters

Measuring range / Base distance												
Base distance (X)	15	15 25 55	15 30 60	25 45 80	35 55 95	45 65 105	60 90 140	80	125	145	245	260
Measuring range (L)	2	10	15	25	30	50	100	250	500	750	1000	1250

Optional display equipment

Multi-functional process monitors

- Easy to use
- With or without bar graph
- Data logger software available

