

CAPACITIVE PROBES

Probe Model Numbers


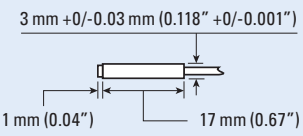

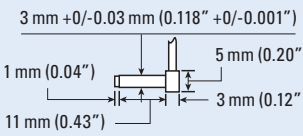

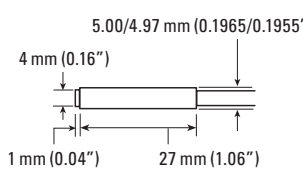

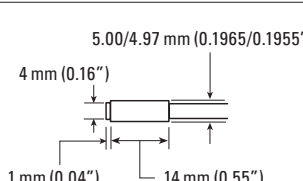

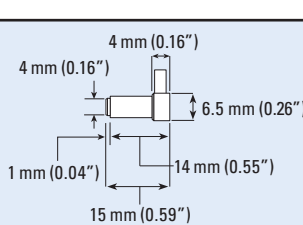

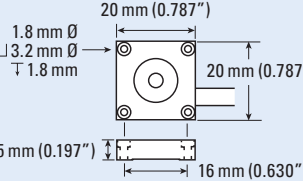
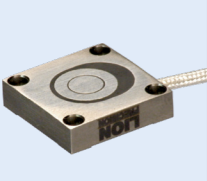
- Probe model numbers are a combination of the Body Model number and Sensing Area Diameter in mm (e.g. C5S-08 or R45-19).
- Cad Files available at www.lionprecision.com/technical-library

C5S

Shape
 C = Cylindrical
 R = Rectangular

Size in mm
 C: Diameter
 R: Longest Side

Body Style
 Blank = Long
 S = Short
 R = RightAngle

Size/Shape	Body Model	Mechanical	Sensing Area 	Sensing Area Diameter (mm)	Measurement Ranges (by Driver Model)	
					CPL190, CPL290 CPL230, CPL350 µm mils	CPA100 µm mils
3mm Cylindrical	C3S	 <p>3 mm +0/-0.03 mm (0.118" +0/-0.001") 1 mm (0.04") 17 mm (0.67")</p>		0.5	10, 50, 80 0.4, 2.0, 3.0	50, 80 2.0, 3.0
				0.8	25, 100 1.0, 4.0	100 4.0
	C3R	 <p>3 mm +0/-0.03 mm (0.118" +0/-0.001") 1 mm (0.04") 5 mm (0.20") 11 mm (0.43") 3 mm (0.12")</p>		0.5	10, 50, 80 0.4, 2.0, 3.0	50, 80 2.0, 3.0
				0.8	25, 100 1.0, 4.0	100 4.0
5mm Cylindrical	C5	 <p>5.00/4.97 mm (0.1965/0.1955") 4 mm (0.16") 1 mm (0.04") 27 mm (1.06")</p>		0.5	10, 50, 80 0.4, 2.0, 3.0	50, 80 2.0, 3.0
				0.8	25, 100 1.0, 4.0	100 4.0
				2.0	10, 50, 250, 500 0.4, 2.0, 10.0, 20.0	250, 500 10.0, 20.0
	C5S	 <p>5.00/4.97 mm (0.1965/0.1955") 4 mm (0.16") 1 mm (0.04") 14 mm (0.55")</p>		0.5	10, 50, 80 0.4, 2.0, 3.0	50, 80 2.0, 3.0
				0.8	25, 100 1.0, 4.0	100 4.0
				2.0	10, 50, 250, 500 0.4, 2.0, 10.0, 20.0	250, 500 10.0, 20.0
C5R	 <p>4 mm (0.16") 4 mm (0.16") 6.5 mm (0.26") 1 mm (0.04") 14 mm (0.55") 15 mm (0.59")</p>		0.5	10, 50, 80 0.4, 2.0, 3.0	50, 80 2.0, 3.0	
			0.8	25, 100 1.0, 4.0	100 4.0	
			2.0	10, 50, 250, 500 0.4, 2.0, 10.0, 20.0	250, 500 10.0, 20.0	
20mm Rectangle	R20	 <p>20 mm (0.787") 1.8 mm Ø 3.2 mm Ø 1.8 mm 20 mm (0.787") 5 mm (0.197") 16 mm (0.630")</p>		5.6	50, 500, 2000 2.0, 20.0, 80.0	200, 2000 20.0, 80.0

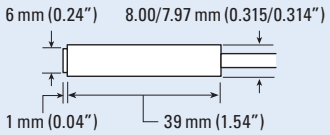

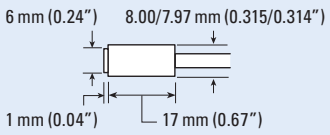

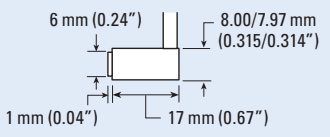

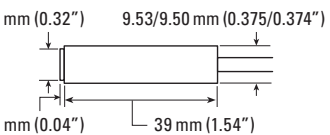

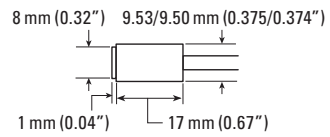

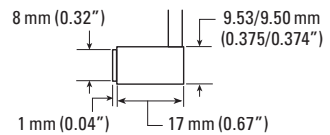

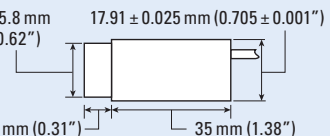

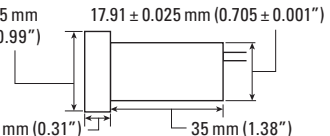
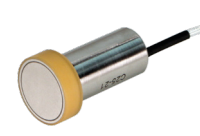
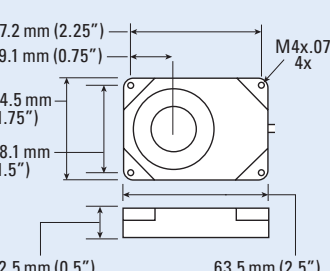

Standard cable length: 2 meters. Operating and storage temperature range: 4-50°C. Available as vacuum compatible.

Probes are not damaged by contact with the sensing tip.

Range is determined by the probe Sensing Area diameter – the larger the diameter, the larger the range.

To hold [specifications](#), flat target surface diameter must be 1.3 times larger than the sensing area diameter.

Measurement Ranges and other performance [specifications](#) are dependent on the selected driver model.

Size/Shape	Body Model	Mechanical	Sensing Area Diameter (mm)	Measurement Ranges (by Driver Model)		
				CPL190, CPL290 CPL230, CPL350 µm mils	CPA100 µm mils	
8mm Cylindrical	C8	 <p>6 mm (0.24") 8.00/7.97 mm (0.315/0.314") 1 mm (0.04") 39 mm (1.54")</p>		2.0	10, 50, 250, 500 0.4, 2.0, 10.0, 20.0	250, 500 10.0, 20.0
				3.2	50, 500, 1250 2.0, 20.0, 50.0	500, 1250 20.0, 50.0
	C8S	 <p>6 mm (0.24") 8.00/7.97 mm (0.315/0.314") 1 mm (0.04") 17 mm (0.67")</p>		2.0	10, 50, 250, 500 0.4, 2.0, 10.0, 20.0	250, 500 10.0, 20.0
				3.2	50, 500, 1250 2.0, 20.0, 50.0	500, 1250 20.0, 50.0
	C8R	 <p>6 mm (0.24") 8.00/7.97 mm (0.315/0.314") 1 mm (0.04") 17 mm (0.67")</p>		2.0	10, 50, 250, 500 0.4, 2.0, 10.0, 20.0	250, 500 10.0, 20.0
				3.2	50, 500, 1250 2.0, 20.0, 50.0	500, 1250 20.0, 50.0
9.5mm (3/8") Cylindrical	C9.5	 <p>8 mm (0.32") 9.53/9.50 mm (0.375/0.374") 1 mm (0.04") 39 mm (1.54")</p>		5.6	50, 500, 2000 2.0, 20.0, 80.0	500, 2000 20.0, 80.0
	C9.5S	 <p>8 mm (0.32") 9.53/9.50 mm (0.375/0.374") 1 mm (0.04") 17 mm (0.67")</p>		5.6	50, 500, 2000 2.0, 20.0, 80.0	500, 2000 20.0, 80.0
	C9.5R	 <p>8 mm (0.32") 9.53/9.50 mm (0.375/0.374") 1 mm (0.04") 17 mm (0.67")</p>		5.6	50, 500, 2000 2.0, 20.0, 80.0	500, 2000 20.0, 80.0
18mm Cylindrical	C18	 <p>15.8 mm (0.62") 17.91 ± 0.025 mm (0.705 ± 0.001") 8 mm (0.31") 35 mm (1.38")</p>		13	2000, 3200, 5000 80, 125, 2000	3200, 5000 125, 200
25mm Cylindrical	C25	 <p>25 mm (0.99") 17.91 ± 0.025 mm (0.705 ± 0.001") 8 mm (0.31") 35 mm (1.38")</p>		21	8000, 12500 300, 500	8000, 12500 300, 500
45mm (1.75") Cylindrical	R45	 <p>57.2 mm (2.25") 19.1 mm (0.75") M4x.07 4x 44.5 mm (1.75") 38.1 mm (1.5") 12.5 mm (0.5") 63.5 mm (2.5")</p>		19	2500, 6000 100, 250	2500, 6000 100, 250