

CPA100 Capacitive Displacement Sensor

Precision analog-out proximity and displacement sensor



Features

- Field Adjustable Gain and Zero
 - Provides application versatility
- Connections for External Gain and Zero Adjustments
 - OEM installations
- Setpoint Switched Output
 - Easy Go/No-Go testing
- Sync Multiple Units
 - Check multiple criteria

Performance

- Measurement Ranges:
 - 0.05 – 6 mm
- Nonlinear Analog Output
- Resolution: 0.03% F.S. (rms) @ 15 kHz
- Bandwidth: 15 kHz
- Visual Indicator for Easy Setup



Monitor position, displacement, runout, and vibration with this high-performance sensor from Lion Precision — a highly respected noncontact sensor manufacturer since 1958.

www.lionprecision.com



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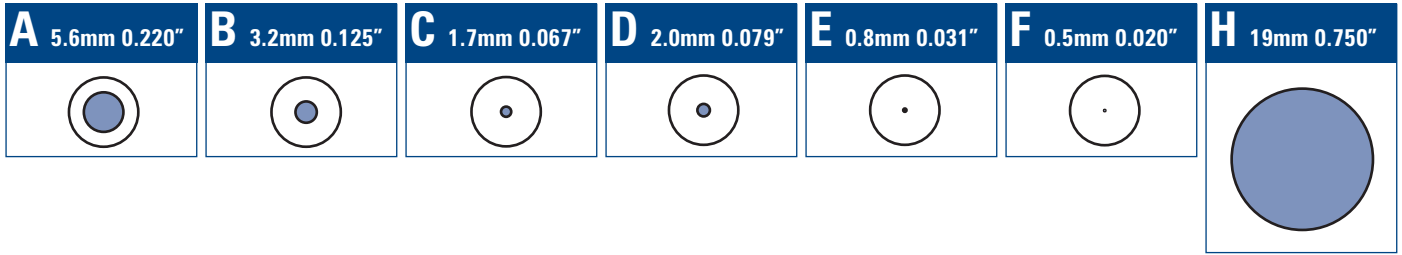
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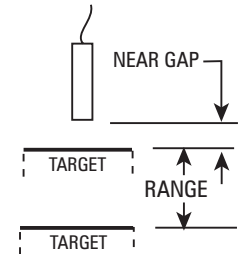
Sensing Areas (diameters)



Probes/Ranges

Sensing Area determines Range.

Probes are factory calibrated to Standard Range (Std.) or Extended Range (Ext.).



Model	Diameter		Model	Diameter		Model	Diameter		Model	Diameter	
C1	3/8"		C2	3/8"		C23	8 mm		C24	8 mm	
Sensing Area	Std. Range Near Gap	Ext. Range Near Gap	Sensing Area	Std. Range Near Gap	Ext. Range Near Gap	Sensing Area	Std. Range Near Gap	Ext. Range Near Gap	Sensing Area	Std. Range Near Gap	Ext. Range Near Gap
A	500 μ m 500 μ m	2000 μ m 250 μ m	A	500 μ m 500 μ m	2000 μ m 250 μ m	B	500 μ m 250 μ m	1250 μ m 250 μ m	B	500 μ m 250 μ m	1250 μ m 250 μ m
						C	250 μ m 125 μ m	500 μ m 125 μ m	C	250 μ m 125 μ m	500 μ m 125 μ m
Model	Diameter		Model	Diameter		Model	Diameter		Model	Diameter	
C3	5 mm		C5	5 mm		C6	5 mm		R2	Rectangle	
Sensing Area	Std. Range Near Gap	Ext. Range Near Gap	Sensing Area	Std. Range Near Gap	Ext. Range Near Gap	Sensing Area	Std. Range Near Gap	Ext. Range Near Gap	Sensing Area	Std. Range Near Gap	Ext. Range Near Gap
D	250 μ m 125 μ m	500 μ m 125 μ m	D	250 μ m 125 μ m	500 μ m 125 μ m	D	250 μ m 125 μ m	500 μ m 125 μ m	H	2.5 mm 5.0 mm	6.0 mm 3.0 mm
E ¹	100 μ m 100 μ m	—	E ¹	100 μ m 100 μ m	—	E ¹	100 μ m 100 μ m	—			
F ¹	50 μ m 50 μ m	80 μ m 60 μ m	F ¹	50 μ m 50 μ m	80 μ m 60 μ m	F ¹	50 μ m 50 μ m	80 μ m 60 μ m			

All specifications subject to change without notice.

¹ These sensing areas are limited to 10 kHz bandwidth