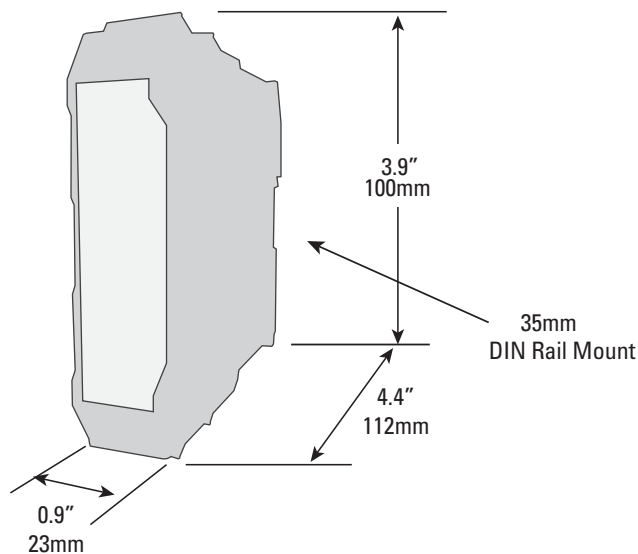


CPA100 Precision Analog Proximity Switch



Lower Cost
0-10 V nonlinear analog output
Setpoint/Switched output
Adjustable gain and zero
Five-element range indicator
Remote gain and zero adjustment connections
DIN rail case
Multiple channel sync

Specifications

Resolution ¹ :	CPA100: 0.03% RMS @ 15kHz CPA100e: 0.3µm RMS or higher @ 15kHz
Bandwidth:	15kHz
Linearity:	Nonlinear
Maximum Drift:	Driver: 0.2% F.S./°C Probe: 0.05% F.S./°C
Analog Output:	0-10V, 0 Ω, 15mA max.
Setpoint:	Fixed at 5 V (mid-range)
Setpoint Output:	Solid state switch closure 30 VAC/60 VDC max
On state:	2.5Ω, 100mA max
Off state leakage:	10µA max
Operating Temp.:	4-50 °C
Input Power ² :	15-24 VDC, 2.5 W

¹ Typical at midpoint. Dependent on probe, range, and bandwidth
(See next page for details)

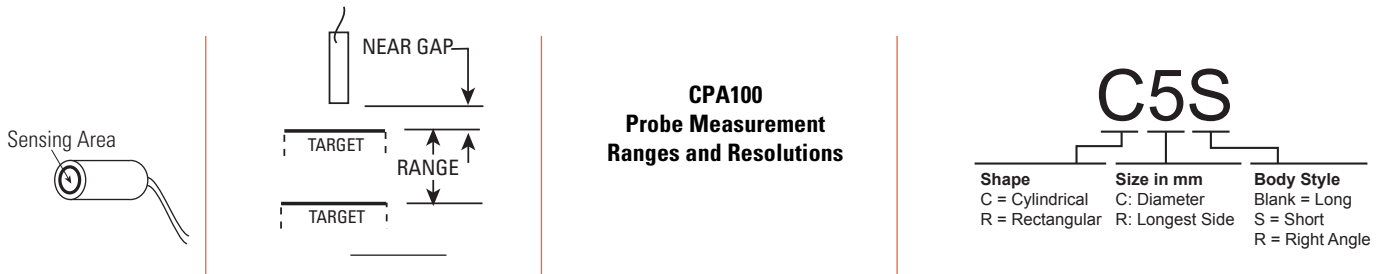
² External power supply not included – available as accessory (p.3)

Listed specifications assume a two meter probe cable;
Flat measurement area diameter at least 1.3 times larger than
the Sensing Area diameter with no customizations.

Different probe body styles/sizes are available for each sensing area.

Export License

Because of high resolutions, some countries require an export license.
CPA100e does not require an export licence.



Sensing Area Diameter mm	Measurement Range			Midpoint Resolution ¹ @ 15kHz		Available Body Sizes	
	Range Type	Range μm mils	Near Gap μm mils	CPA100 μm mils	CPA100e μm mils	Models	Body Styles
0.5	Standard	50 2.0	50 2.0	55 2.2	400 16	C3S C3R	C5S C5R C5
	Extended	80 3.0	60 2.4	100 4.0	400 16		
0.8	Standard	100 4.0	100 4.0	55 2.2	400 16	C3S C3R	C5S C5R C5
2.0	Standard	250 10.0	125 5.0	40 1.6	400 16	C5S C5R C5	C8S C8R C8
	Extended	500 20.0	125 5.0	55 2.2	400 16		
3.2	Standard	500 20.0	250 10	85 3.4	400 16	C8S C8R C8	
	Extended	1250 50.0	250 10	130 5.2	400 16		
5.6	Standard	500 20.0	500 20	140 5.5	400 16	C9.5S C9.5R C9.5 R20	
	Extended	2000 90.0	250 10	170 6.7	800 32		
13	Standard	3200 125	2000 80	1000 40	1000 40	C18	
	Extended	5000 200	3000 120	1600 63	1600 63		
19	Standard	2500 100	5000 200	800 32	800 32	R45	
	Extended	6000 250	3000 120	1100 44	1100 44		
21	Standard	8000 300	5000 200	1200 47	1200 47	C25	
	Extended	12500 500	5000 200	1600 63	1600 63		

The CPA100e does NOT require an export licence.