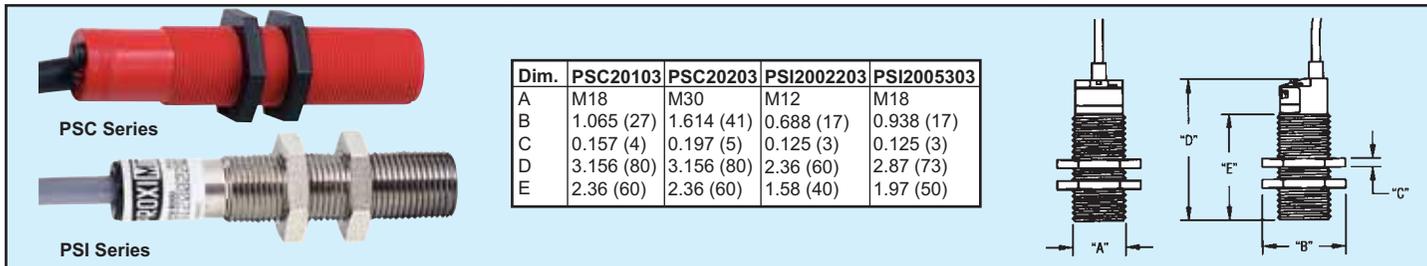


Proximity Sensors

Capacitive or Inductive 3-Wire DC, Threaded Body



The Series PS Proximity Sensors are noninvasive sensors ideal for level detection, position indicating and counting applications. Capacitive type sensors detect electrically conducting and nonconducting materials, liquids, solids, or powders and include a sensitivity adjustment to differentiate between various materials. Inductive sensors detect ferrous or nonferrous metals only. A bright LED indicates the state of the output switch. Sensors feature short circuit, reverse polarity, and transient protection. Small size and threaded body make installation easy. Inductive sensors are embeddable (can be mounted flush). Capacitive sensors are environmentally protected to IP65 and Inductive sensors are protected to IP68. Units include two fixing, screwdriver, and operating manual.

SPECIFICATIONS

Wetted Materials: Glass GRP Crastine reinforced plastic (PSC), stainless steel (Model PSI2002203), nickel-plated brass (Model PSI2005303).

Temperature Limits: -22 to 212°F (-30 to 100°C) capacitive, -13 to 158°F (-25 to 70°C) inductive.

Enclosure Rating: PSC, IP65; PSI, IP68.

Repeatability: ±0.05% (Model PSC20103), ±0.1% (Model PSC20203), ±0.01% (PSI Models).

Power Requirements: 8 to 30 VDC.

Switch Type: Normally open NPN transistor, sinking (PSC30203:PNP).

Electrical Rating: 250 mA (PSC), 200 mA (PSI).

Minimum Load Current: 8 mA (PSC), <25 mA (PSI).

Leakage (Off-State) Current: <3 mA (PSC), <0.08 mA (PSI).

Voltage Drop: <3.5V @ 250 mA (PSC). <2.5V @ 200 mA (PSI).

Ripple: 10%.

Electrical Connection: 9.8 ft (3 m) cable.

Deadband: 20% of range (PSC), 15% of range (PSI).

Initializing Time Delay: <10 msec.

Agency Approvals: CE.

Model	Type	Body Size	Switching Frequency	Detecting Dist. in (mm)
PSC20103	Cap.	M18 x 1	400 Hz	.04-3 (1-10)
PSC20203	Cap.	M30 x 1.5	250 Hz	.08-79 (2-20)
PSC30203*	Cap.	M30 x 1.5	250 Hz	.08-79 (2-20)
PSI2002203	Ind.	M12 x 1	800 Hz	.08 (2)
PSI2005303	Ind.	M18 x 1	500 Hz	.19 (5)

*PNP Transistor