

Proximity Sensors

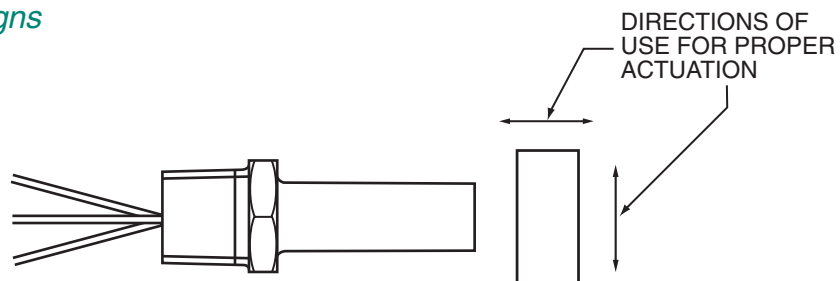


Typical standard product designs offered from stock.

Madison Company's P Series proximity sensors use reed switch-based technology, which offers reliability of up to 5 million cycles. Offered in both plastic and metal housings, these proximity sensors are interchangeable with existing sensors of similar characteristics or can be designed specifically for individual application needs.

These noncontact sensors are available with single pole double throw switches (Form C), or Form A and B. They offer a variety of ways to sense the relative position of specific machine elements requiring continuous monitoring. Several different fabrication materials can be used. Materials are selected based on the application environment. The standard operating temperature range is from -40°C to 125°C (-40°F to 257°F).

Sensors can be ordered in sets containing the sensor, the actuator and hardware, or the components can be ordered separately. These cost-effective sensors are offered in standard designs and engineered designs with various actuation points.



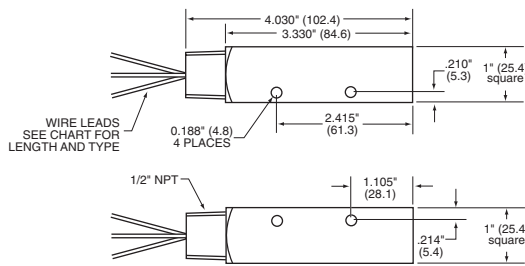
Features

- Fully potted switch and leads
- High cycle rate capabilities
- High-speed operation
- Compact for limited-space applications
- No moving parts, for longer life
- Corrosion-resistant
- Wide selection of materials
- Engineered designs available

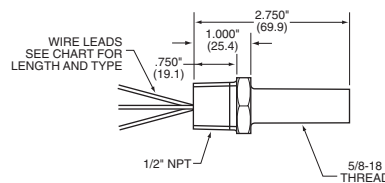
Specifications for Representative Standard Products

Wiring Chart

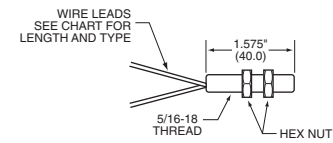
Common	Black
NC	Yellow
NO	Green



P450 Series



P400 Series



P300 Series

Proximity Sensors	P450 Series PVC	P400 Series Stainless Steel	P300 Series Stainless Steel
Contact Form	1C	1C	A (SPDT)
Maximum Voltage (based on switch selection)	120 VDC; 120 VAC	120 VDC; 120 VAC	300 V
Maximum Switching Amps	3 A	3 A	.5 A
Watts (max.)	100 W	100 W	50 W
Contact Resistance	.5 Ohm maximum	.5 Ohm maximum	.1 Ohm maximum
Breakdown Voltage	250 VDC	250 VDC	600 VDC
Operating Temperature	0°C to 60°C	-40°C to 125°C	-40°C to 125°C
“Must Operate” Distance	.200”	.200”	.200”
“Must Release” Distance	.700”	.700”	.600”
Standard Actuator Size	1.125” OD x .470” H	1.125” OD x .470” H	.670” OD x .200” H
Operating Time	3 msec	3 msec	.6 msec
Release Time	3 msec	3 msec	.05 msec
Leads (standard) (3 leads with color options)	24”, 22 AWG Teflon®	24”, 22 AWG Teflon®	24”, 22 AWG Teflon®

All specifications are subject to change without notice.



Sensor solutions for today and the future™



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