



# P Series

## Proximity Sensors

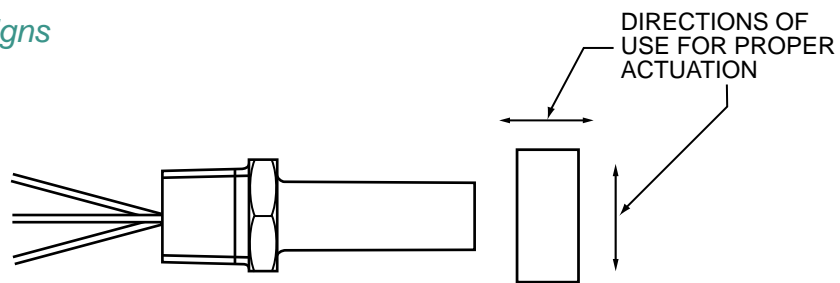


Madison Company's P Series of proximity sensors are reed switch-based technology, which offers reliability of up to 5,000,000 cycles. Offered in both plastic and metal housings, these proximity switches are interchangeable for existing sensors of similar characteristics, or can be designed specifically 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 normally offered operating temperature range is from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$  ( $-40^{\circ}$  to  $257^{\circ}\text{F}$ ).

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

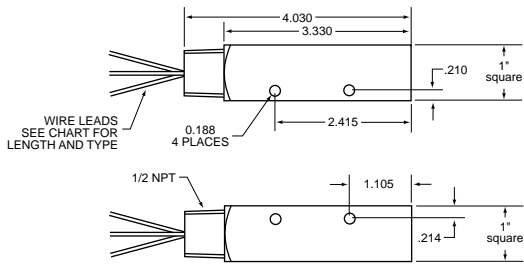
*Typical standard product designs offered from stock.*



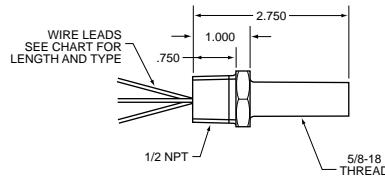
## Features

- 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

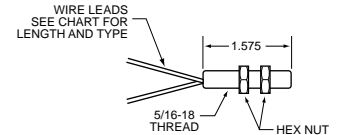
# Specifications for Representative Standard Products



**P450 Series**



**P400 Series**



**P300 Series**

## Proximity Sensors

### P450 Series PVC

### P400 Series Stainless Steel

### P300 Series Stainless Steel

	P450 Series PVC	P400 Series Stainless Steel	P300 Series Stainless Steel
Contact Form	1C	1C	A (SPST)
Maximum Voltage	28 VDC; 110 VAC	28 VDC; 110 VAC	300 V
Maximum Switching Amps	3 A	3 A	.5 A
Watts	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)	24”, 22 AWG Teflon	24”, 22 AWG Teflon	24”, 22 AWG Teflon



Sensor solutions for today and the future™

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