

# Magnets, Actuators

ACTUATORS	SENSORS
PRX+0100	PRX+0700, 0800, 0900
PRX+1000	PRX+1100, 1200 <sup>2</sup> , 1300 <sup>2</sup>
PRX+1005	PRX+1500
PRX+1006	PRX+1600
PRX+1007	PRX+1700, 1800, 1900
PRX+4000 <sup>1</sup>	PRX+4100, 4400, 4800
PRX+5000	PRX+5100, 5200 <sup>2</sup> , 5300 <sup>2</sup>
PRX+6000	PRX+6100, 6200 <sup>2</sup> , 6300 <sup>2</sup>
PRX+7000	PRX+7100, 7200, 7300
PRX+8100	PRX+8200, 8300, 8500, 8800
<b>PRX+9000</b>	PRX+9100, 9200, 9300, 9125, 9225, 9325, 9150, 9250, 9350

## Actuators

Actuators are magnets placed in a housing to match the proximity sensor. Customers often pair our actuators with our proximity sensors for a matching, magnetic sensor package. Also, many of the actuator housings provide a way to mount the magnet onto a surface. Need a custom housing for your magnets? No problem! Our engineers can help you develop an actuator to complete your sensing package.

## Notes

1. The actuator for our Steel Sensing Proximity Sensors is a steel (ferrous metal) target.
  2. These products are Form B & C versions of the PRX+1100, 5100 and 6100. Visit our website for more information on these products.
- \* Most housings can be modified to meet customer requirements. Contact Hermetic for more info.

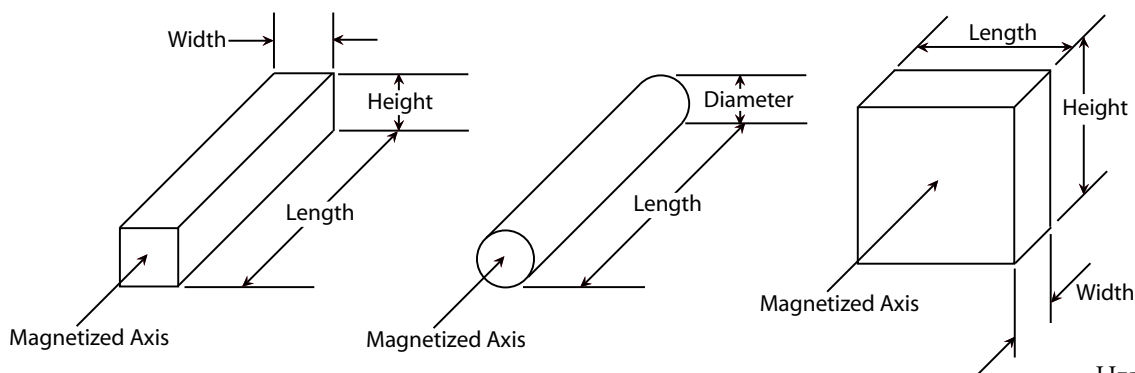
## Permanent Magnets

In applications where the reed switch signals relative motion, permanent magnets are used to provide the operating magnetic field. Six sizes of ALNICO 5 magnets, one Rare Earth (NEO 27) magnet and one ceramic magnet are stocked. Hermetic Switch can assist with obtaining other sizes and types if necessary.

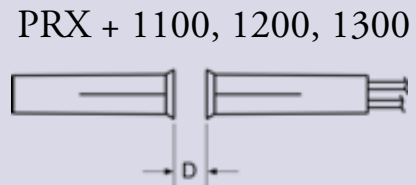
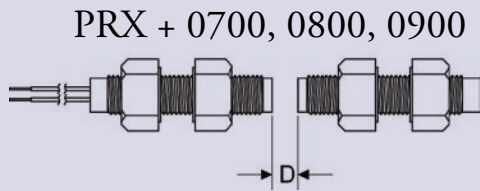
## Notes

1. Consult factory for details of test procedures, tolerances and magnet handling precautions.

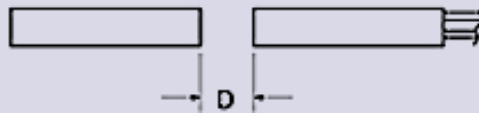
Part No.	LENGTH	WIDTH	HEIGHT	GAUSS <sup>1</sup>	MAGNET MATERIAL
M-01	.500+/- .010 in (12.7 mm)	.062+/- .005 in (1.6 mm)	.062+/- .005 in (1.6 mm)	400	Cast Alnico 5
M-02	.750+/- .015 in (19.0 mm)	.125+/- .005 in (3.2 mm)	.125+/- .005 in (3.2 mm)	400	Cast Alnico 5
M-03	.975+/- .030 in (24.8 mm)	.180+/- .007 in (4.6 mm)	.180+/- .007 in (4.6 mm)	950	Cast Alnico 5
M-04	1.00+/- .030 in (25.4 mm)	.250+/- .015 in (6.4 mm)	.250+/- .015 in (6.4 mm)	1000	Cast Alnico 5
M-05	1.40+/- .020 in (35.6 mm)	.250 Dia+/- .010 in (6.3 mm)	Cylinder	780	Cast Alnico 5
M-06	.410+/- .005 in (10.2 mm)	.100 Dia+/- .005 in (2.5 mm)	Cylinder	725	Cast Alnico 5
M-08	.200+/- .005 in (5.1 mm)	.250 Dia+/- .005 in (6.4 mm)	Cylinder	1100	NEO27
M-16	.375+/- .010 in (9.5 mm)	.150+/- .010 in (3.8 mm)	.375+/- .010 in (9.5 mm)	570	CERAMIC VIII



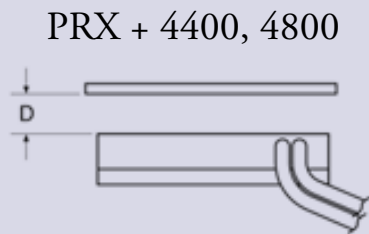
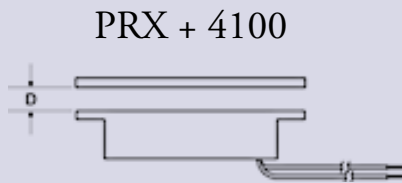
# Hermetic Switch Operating Distance Illustrations



PRX + 1500, 1600, 1700, 1800, 1900



Tubular



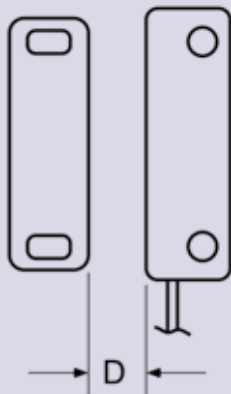
Steel Sensing

PRX + 5000, 6000 Series

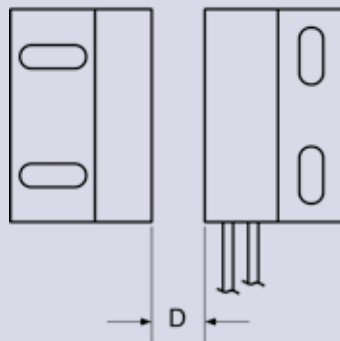


Industrial/Alarm

PRX + 7000 Series

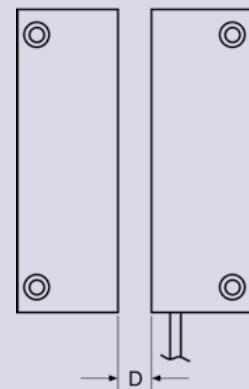


PRX + 8000 Series



Low Profile

PRX + 9000 Series



High Power