

# P800 Proxswitch

BETTER BY DESIGN

## P800 Proxswitch Inductive Proximity Sensor

### APPLICATION

The P800 Proxswitch is an inductive sensor designed to detect shaft speed, shaft position, gate position, or object presence.

### METHOD OF OPERATION

The P800 Proxswitch is a CSA Class II, Division 1 approved limit switch style proximity sensor, which works on the damped oscillator principle. No contact is made between the sensor and the object being monitored. The P800 will detect a ferrous object at a maximum distance of 1/2" and a non-ferrous object at 5/16".

Three different sensor outputs are available -

1. P8002V10FC with changeover relay contact output. Best used for shaft position, gate position or object presence.
2. P8003V10C with opto-isolated bilateral FET output (energized on). Best used for speed monitoring.
3. P8004V10C with opto-isolated bilateral FET output (de-energized off). Best used for speed monitoring.

All units are fully encapsulated and come with a 6 foot cable lead and 1/2" conduit entry. Two LED's show power supply and input status.

### FEATURES

- ▶ No Contact Monitoring
- ▶ Dust Hazard Approved
- ▶ Totally Sealed Construction: Submersible
- ▶ CSA Class II Div. 1 Groups E, F & G Approved
- ▶ IP 67 Protection

### PART NUMBERS/ACCESSORIES

- ▶ P8002V10FC Proxswitch (Contact Closure Version)
- ▶ P8003V10C Proxswitch (Opto-Isolated Bilateral FET Version)
- ▶ P8004V10C Proxswitch (Opto-Isolated Bilateral FET Version)
- ▶ WG1-4B-4 Whirligig® (Target/Bracket/Guard)
- ▶ MAG2000 Mag-Con™ Magnetic Connector for Whirligig
- ▶ SM2 SpeedMaster™ Sensor Testing Device
- ▶ TACH3V5 Tacho Display



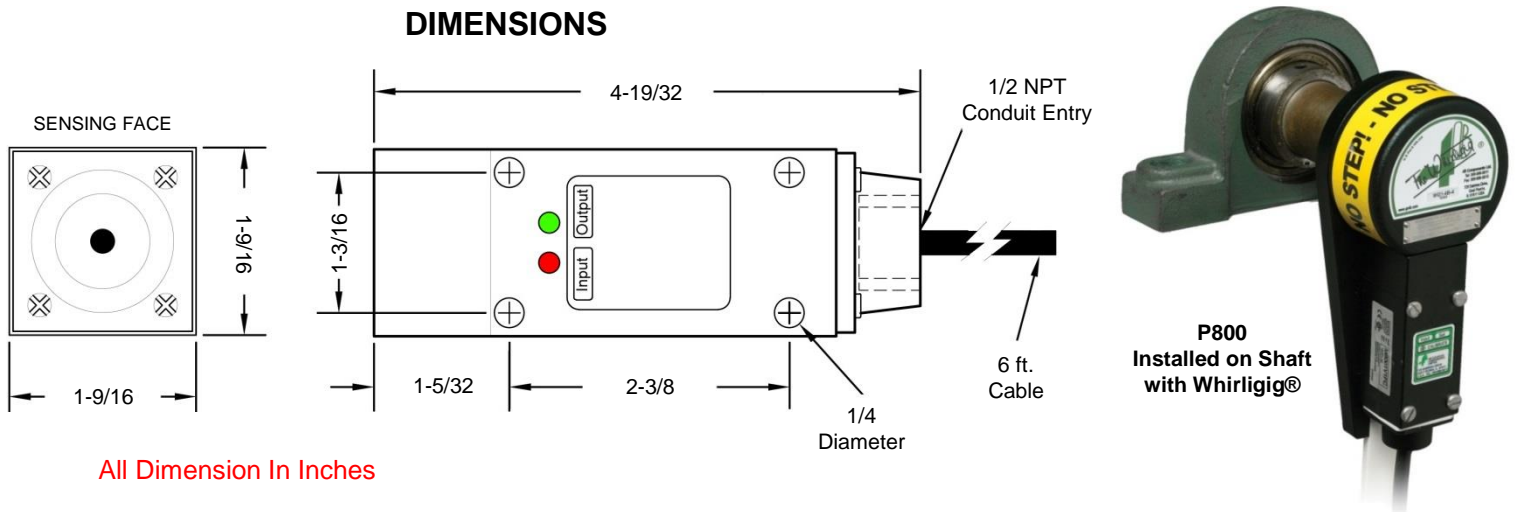
The SpeedMaster™ is the only device that accurately tests the calibration of a speed switch, and allows testing of the alarm and shutdown features of the sensor while installed on the machine shaft.

To see it in action, visit:  
[www.go4b.com/speedmaster](http://www.go4b.com/speedmaster)

Please refer to instruction manual for correct installation.  
Information subject to change or correction. Oct 2017

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All Dimension In Inches

## TECHNICAL SPECIFICATIONS

### P800 Proxswitch - Inductive Proximity Sensor

|                                | P8002V10FC   | P8003V10C  | P8004V10C                                |
|--------------------------------|--|--|--|
| <b>Typical Applications -</b>  | Position & Object Monitoring   | Speed Monitoring                                       |  |
| <b>Output -</b>                | Voltage Free Changeover Relay<br>3A 240V Max.  | Opto-Isolated Bilateral FET<br>120 VAC/VDC 100 mA Max. |  |
| <b>Output State -</b>          | Output De-Energized (Off) with No Target   | Output Energized (On) with No Target                   | Output De-Energized (Off) with No Target |
| <b>Relay Type -</b>            | Mechanical   | Solid State  |  |
| <b>Max Input Speed -</b>       | 5 Hz (300 ppm)   | 100 Hz (6,000 ppm)                                     |  |
| <b>Supply Voltage -</b>        | 12 to 240 VDC / 24 to 240 VAC  |  |  |
| <b>LED Indication -</b>        | Red and Green LED's for target detection   |  |  |
| <b>Operating Temperature -</b> | 14° F (-10° C) to 158° F (70° C)   |  |  |
| <b>Sensitivity -</b>           | Ferrous Target - 1/2 Inch (12 mm) Maximum<br>Non-Ferrous Target - 5/16 Inch (6 mm) Maximum |  |  |
| <b>Body Construction -</b>     | Nylon  |  |  |
| <b>Conduit Entry -</b>         | 1/2 Inch NPT   |  |  |
| <b>Cable Length -</b>          | 6 Feet (2 m) - 4 Core  |  |  |
| <b>Weight -</b>                | 1 lb.  |  |  |
| <b>Protection -</b>            | IP67   |  |  |
| <b>Approvals -</b>             | CSA Class II Div 1 Groups E, F, and G (US and Canada)                                      |  |  |

Please refer to instruction manual for correct installation.  
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