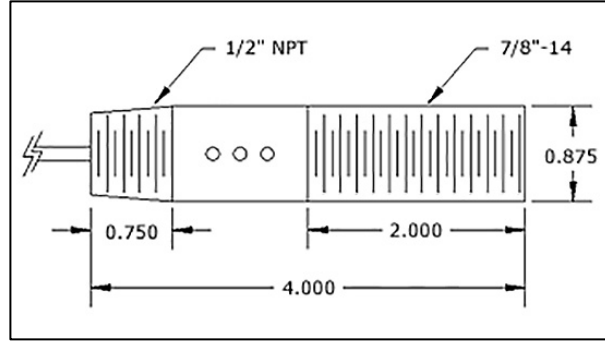




# Zero Speed Switch Sensor, ZS09R



Model ZS09R, with Reed Relay  
Device contains sensor and relay.



Dimensions (in inches) and Threads

## General Specifications

<p><b>Operating Voltages:</b> 5-24 VDC or 120 VAC  <b>Operating Temperature:</b> -40°F to 140°F  <b>Operating Frequency:</b>  Hall Effect and Inductive (Gear Tooth):  0.02Hz - 10kHz  Hall Effect Only: 0.02Hz - 25kHz  <b>Contact ratings:</b>  250 VAC, 220 VDC Maximum, 1 Amp  Vibration resistance:  10 to 55 Hz, double amplitude 3 mm (20 G) – misoperation  10 to 55 Hz, double amplitude 5 mm (30 G) – destructive failure  Shock resistance:  735 m/s<sup>2</sup> (75 G) – misoperation  980 m/s<sup>2</sup> (100 G) – destructive failure</p>	<p><b>Relay Set-Point Adjustment Range:</b>  Standard: 1-100 RPM, 1 Pulse Per Revolution  Custom parameters are available.  <b>Housing Material:</b> Aluminum  <b>Fuse:</b> Internal 1/2 Amp non-replaceable fuse  <b>Cable:</b> 4 ft., 6 conductor, 22 AWG, unshielded  <b>Sensing Distance to Target (Gap):</b>  1/16" to 5/16" using Ferrous Target (Gear Tooth Wheel, Bolt Head, Key Stock, etc.)  1/2" to 5/8" using Phares Magnetic Disk  1" using Phares Magnet, Part No. SM-100  <b>Minimum Gear Tooth Target Sizes:</b>  1/8" gear tooth length, width, depth and gap.  <b>Gear Tooth Target Material:</b>  High ferrous (iron) content.</p>
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## Part Number Chart

ZS09R X - Y Z

<p><b>X – Relay Output</b>  1: N.O./N.C.  2: N.O.  3: N.C.</p>	<p><b>Y – Input Voltage</b>  120: 120 VAC  D: 6-24 VDC</p>	<p><b>Z – Target Material</b>  M: Magnetic  F: Ferrous (such as gear tooth, bolt head, or keystone)</p>
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## Options

- Custom Cable Length
- Custom Relay Set-Point Adjustment Range
- Fixed Set-Point
- Relay Latch