

**Typical usage:** Speed or Position sensing of a magnet or magnetic field.  
Activation options include Uni-polar (south pole only), Omni-polar (both poles), and latching Bi-polar (south pole activate, north pole de-activate).  
Produces a digital square wave signal with the frequency proportional to the speed.

**Supply Voltage (Vs):** 4.0 - 30 Vdc @ 18 mA

**Pulse Out (Vo):** 0 - Vs, 0 - 5V(TTL), 0 - 10V, OC, NPN/PNP

**Frequency Range:** 0 - 20 kHz (Standard, for precision position applications), up to 100 kHz (for high speed only)

**Air Gap:** 0.16" Typical, 0.50" Max. depending on target mass and velocity.

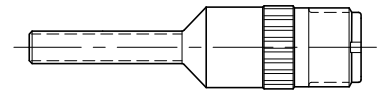
**Temp. Ranges:** 2TE: -40° to 221° F (-40° to 105° C)

3TE: -40° to 300° F (-40° to 150° C)

Please contact [info@spectecsensors.com](mailto:info@spectecsensors.com) for detailed spec-sheets on each sensor family listed.

**1/4"** Thread Length: 1.0 - 3.0" (25-76mm)  
**M6** Temp Ranges: 2TE or 3TE  
**M8**

**0155** 1/4-40 UNS  
**0155B** 1/4-28 UNF  
**0155M** M6 x 0.75

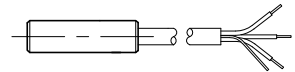
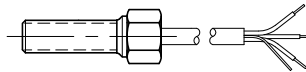
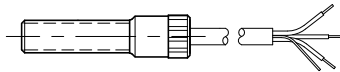
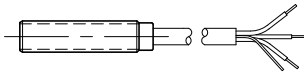


**0155A** 1/4-40 UNS  
**0155AB** 1/4-28 UNF  
**0155AM** M6 x 0.75  
**0155AM8** M8 x 1.0

**0155K** 1/4-40 UNS  
**0155KB** 1/4-28 UNF  
**0155KM** M6 x 0.75

**0155H** 1/4-40 UNS  
**0155HB** 1/4-28 UNF  
**0155HM** M6 x 0.75

**0155S** ø1/4 (6.4mm)  
**0155S8** ø5/16 (8.0mm)



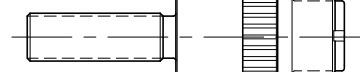
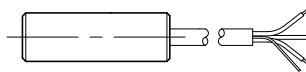
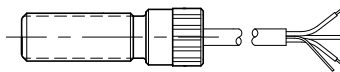
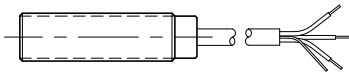
**3/8"** Thread Length: 0.8 - 6.0" (20-152mm)  
**M10** Temp Ranges: 2TE or 3TE

**0156A** 3/8-24 UNEF  
**0156M** M10 x 1.25  
**0156M1** M10 x 1.0

**0156K** 3/8-24 UNEF

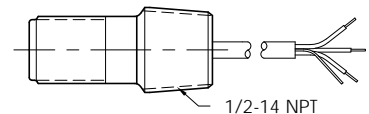
**0156S** ø3/8 (9.5mm)

**0156** 3/8-24 UNEF  
**0156MK** M10 x 1.25



**1/2"** Thread Length: 1.0 - 6.0" (25-152mm)  
**M12** Temp Ranges: 2TE or 3TE

**0158X** 1/2-20 UNF



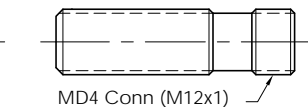
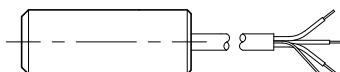
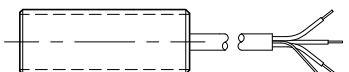
Available with dual output

**0158A** 1/2-20 UNF  
**0158B** 1/2-32 UN  
**0158M** M12 x 1.0

**0158S** ø1/2 (12.7mm)

**0158** 1/2-20 UNF  
**0158MK** M12 x 1.0

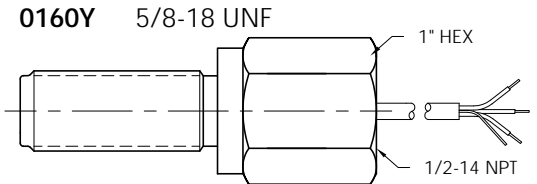
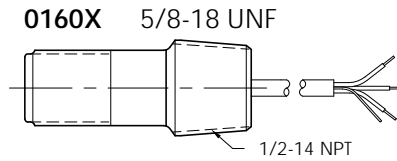
**0158MD** M12x1.0



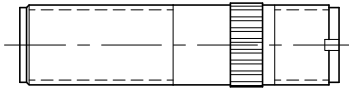
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**5/8"** Thread Length: 1.1 - 6.0" (28-152mm)  
**M16** Temp Ranges: 2TE or 3TE

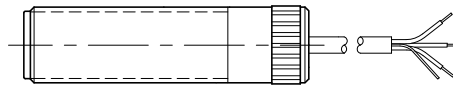
Available with dual output



**0161** 5/8-18 UNF  
**0161M** M16 x 1.5  
**0161M1** M16 x 1.0



**0160** 5/8-18 UNF  
**0160M** M16 x 1.5  
**0160M1** M16 x 1.0



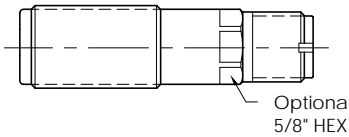
**0160A** 5/8-18 UNF  
**0160AM** M16 x 1.5  
**0160AM1** M16 x 1.0



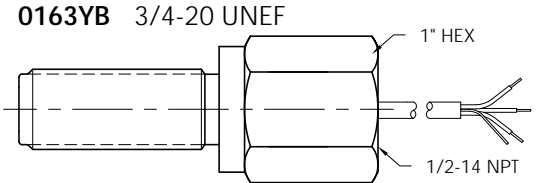
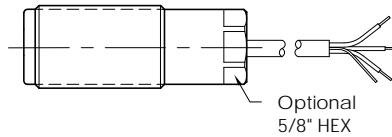
**3/4"** Thread Length: 1.0 - 6.0" (25-152mm)  
**M18** Temp Ranges: 2TE or 3TE

Available with dual output

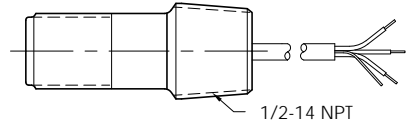
**0162** 3/4-16 UNF  
**0162B** 3/4-20 UNEF  
**0162M** M18 x 1.5  
**0162M1** M18 x 1.0



**0163** 3/4-16 UNF  
**0163B** 3/4-20 UNEF  
**0163M** M18 x 1.5  
**0163M1** M18 x 1.0



**0163X** 3/4-16 UNF  
**0163XB** 3/4-20 UNEF



## DIGISPEC LINEAR/ANGULAR POSITION SENSORS

Magnet Actuated

**Typical usage:** Position, Rotation, or Angle sensing of a magnet or magnetic field.  
Senses continuous variations in a magnetic field and produces a constant voltage proportional to the field strength.

**Supply Voltage (Vs):** 8.0 - 30 Vdc @ 5 mA  
**Signal Output (Vo):** 0.06 - 4.95 V Typical (2.5 V at zero field strength)  
**Input Sensitivity:** 5 mV / Gauss standard  
**Frequency Range:** 0 - 30 kHz  
**Air Gap:** Depends on field strength (up to 1.0" @ 3000 Gauss)  
**Temp. Ranges:** **2TE:** -40° to 221° F (-40° to 105° C)  
**3TE:** -40° to 300° F (-40° to 150° C)

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**5/8"** Thread Length: 1.0 - 6.0" (25-152mm)  
**3/4"** Temp Ranges: 2TE or 3TE

**M16**  
**M18** Available in the same housing configurations shown on this page.

**0220** Connector versions  
**0221** Lead Wire versions