PRODUCT DESCRIPTION
SPECTEC’s 3/8” size magnetic pickups are part of a family of modular, rugged, and high performance “passive” type speed sensors ranging in size from 3/16” to 3/4” Dia. They feature high output voltage and great configuration diversity to meet a wide range of applications.

SPECIFICATIONS
Coil Resistance, Inductance, & Output Voltage:

<table>
<thead>
<tr>
<th>Type</th>
<th>Resistance</th>
<th>Inductance</th>
<th>Output Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1</td>
<td>100 Ω</td>
<td>10 mH</td>
<td>25 Vpp</td>
</tr>
<tr>
<td>Type 2</td>
<td>230 Ω</td>
<td>40 mH</td>
<td>70 Vpp</td>
</tr>
<tr>
<td>Type 3</td>
<td>650 Ω</td>
<td>120 mH</td>
<td>85 Vpp</td>
</tr>
<tr>
<td>Type 4</td>
<td>1100 Ω</td>
<td>250 mH</td>
<td>110 Vpp</td>
</tr>
<tr>
<td>Type 8</td>
<td>270/330 Ω</td>
<td>40 mH</td>
<td>50 Vpp</td>
</tr>
</tbody>
</table>

Output Voltage (Type 8: Dual output w/ B4 connector):

<table>
<thead>
<tr>
<th>Resistance</th>
<th>Inductance</th>
<th>Output Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>270 Ω</td>
<td>40 mH</td>
<td>50 Vpp</td>
</tr>
</tbody>
</table>

(1000 IPS, 20-pitch gear at .005” gap, 100K Ohm load. Inductance and output voltage notations are maximum values.)

Magnetization:

<table>
<thead>
<tr>
<th>Type</th>
<th>Magnetization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>900 GAUSS, TYP.</td>
</tr>
<tr>
<td>Low Mag.</td>
<td>250 GAUSS, TYP.</td>
</tr>
</tbody>
</table>

(See note on page 2)

Temperature Range:

<table>
<thead>
<tr>
<th>Range</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>2T</td>
<td>-100° to 250°F (-73° to 120°C)</td>
</tr>
<tr>
<td>3T</td>
<td>-150° to 330°F (-101° to 165°C)</td>
</tr>
<tr>
<td>4HT</td>
<td>-250° to +400°F (-157° to +204°C)</td>
</tr>
<tr>
<td>5HT</td>
<td>-450° to 450°F (-268° to 232°C)</td>
</tr>
</tbody>
</table>

Pole Type:
Flush (FP), Sealed Flush (FPS), Extended (EP), & Chisel Points (CP) are available. (CP must be oriented parallel with gear tooth.)

<table>
<thead>
<tr>
<th>Gear Pitch</th>
<th>Pole Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤36 DP (MODULE 0.7)</td>
<td>EP40, EP62, CP10</td>
</tr>
<tr>
<td>≤26 DP (MODULE 0.98)</td>
<td>EP93, FPS100</td>
</tr>
<tr>
<td>≤24 DP (MODULE 1.06)</td>
<td>FP130</td>
</tr>
</tbody>
</table>

Lead Wire:

<table>
<thead>
<tr>
<th>Range</th>
<th>Lead Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>2T</td>
<td>PVC, 22-24 AWG</td>
</tr>
<tr>
<td>3T</td>
<td>TFE, 22 AWG</td>
</tr>
<tr>
<td>4HT</td>
<td>TFE, 22 AWG</td>
</tr>
<tr>
<td>5HT</td>
<td>TFE, 22 AWG</td>
</tr>
</tbody>
</table>

Construction:

300 Series Stainless Steel
Solid Encapsulation
All standard connectors have gold plated pins

CE-Compliance: EN50011, EN50022-2

OPTIONS

For different length, material of construction, configuration, special pole-piece types, thread size, hermetically sealed, precision custom magnetization, connector and/or cable termination, please contact factory.

For intrinsically safe versions refer to bulletin: IS40 & IS41
ORDER INFORMATION

STYLE:  OPTIONS:  THREADS/DIA.:  
0007  -  3/8-24 UNF  

Thread Length(A):  
1 - 0.8" (20mm)  
2 - 2.0" (51mm)  
3 - 2.5" (64mm)  
4 - 3.0" (76mm)  
6 - 4.0" (102mm)  
  
Pole Type:  
1 - FP130 Flush Pole (Ø.130)  
2 - EP93 Extended Pole (Ø.093 x .03 H)  
3 - EP62 Extended Pole (Ø.062 x .03 H)  
4 - EP40 Extended Pole (Ø.040 x .03 H)  
5 - FPS100 Flush Pole w/ S.S. Face (Ø.100)  
7 - CP10 Chisel Pole (Ø.130 x .01)  

Lead Wire(X):  
2 - 2' (0.6m) Single Leads (*Shield NOT connect to sensor shell,  
7 - 3' (1.0m) Shielded Cable* shield is intended to be connected to  
9 - 10' (3.0m) Shielded Cable* instrument panel ground.)  

Temperature Range:  
2 - 2T: -100° to +250°F (-73° to +120°C)  
3 - 3T: -150° to +330°F (-78° to +165°C)  
4 - 4HT: -250° to +400°F (-157° to +204°C)  
5 - 5HT: -450° to +450°F (-268° to +232°C)  

Coil Resistance:  
1 - 100 Ohm  
2 - 230 Ohm  
3 - 650 Ohm  
4 - 1100 Ohm  
8 - DUAL OUTPUT: 270/330 Ohm  

0008  -  3/8-24 UNF  

0008M  -  M10x1.25  
0008M1  -  M10x1  
0008S  -  Ø3/8" Smooth Shell  

Length(L):  
0 - 1.0" (25mm)  
1 - 1.5" (38mm)  
2 - 2.0" (51mm)  
3 - 2.5" (64mm)  
4 - 3.0" (76mm)  
5 - 4.0" (102mm)  
6 - 5.0" (127mm)  
7 - 6.0" (152mm)  

SAME AS ABOVE  

0009  -  3/8-24 UNF  

0009M  -  M10x1.25  

Thread Length(A):  
1 - 1.3" (25mm)  
2 - 2.0" (38mm)  
3 - 3.0" (76mm)  

SAME AS ABOVE  

Connector:  
1 - MS: 2 Pin MS3106-10SL-4S (see Bulletin 3000)  
2 - B: 2 Pin MS3113-H8C-2P (see Bulletin 3001)  
4 - B4: 4 Pin MS3113-H8C-4P (see Bulletin 3001)  
6 - MD4: 4 Pin MICRO DIN (see Bulletin 3005)  
8 - BNC: 1 Pin Jack, Female Socket, Bayonet Lock  

SAME AS ABOVE  

NOTE: THE MAGNETIZATION LEVEL FOR LOW MAG. SENSORS IS DESIGNATED BY A SUFFIX TO THE P/N.  
I.E.: 0008-11111-300G, DESIGNATING A GAUSS LEVEL OF 300(±50) GAUSS.  
(STANDARD MAG. LEVEL WILL NOT HAVE A SUFFIX.)