The SPC Series of flanged speed sensors have been designed as simple compact sensors suited to the demanding motorsport and on-vehicle automotive testing applications. The main construction is aluminum which provides for a rugged sensor, even in exposed areas such as the engine bay or wheel hub. The sensor will continuously operate at temperatures up to 300°F.

By using a proven ‘Hall Effect’ technology, the SPC detects a change in magnetic field as the target passes the sensors tip. The output transistor switches its state as the target passes, so giving a measurable pulse train which can be used within standard data logging equipment or ECU’s.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Frequency</td>
<td>8KHz</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>Hall Effect</td>
</tr>
</tbody>
</table>
| Mounting                             | Single Flange: Flange with Single Screw Fitting  
  Dual Flange: Flange with Double Screw Fitting |
| Target Size (Width x Length)         | 0.31” Wide x 0.04” Long                   |
| Sensing Range (Air Gap)              | 0.04” to 0.12”                             |
| Output                               | NPN, Internal Pullup Resistor Value 10KΩ   |
| Max Load Current                     | 25mA Max                                   |
| Power Supply                         | 5-24 Vdc (10mA)                            |
| Operating Temperature Range          | -40°F to +300°F (-40°C to +150°C)           |
| Construction                         | Anodized Aluminum                          |
| Electrical Connection                | Please See Part Number Configurator - page 2|
| Cable Exit                           | Straight or Right Angle                    |
| Mechanical Dimensions                | See Part Number Configurator & Drawings - page 2|
| Protection Class                     | IP67                                       |
| Vibration Protection                 | 5KHz Sine at 100g                          |
| Weight (Excluding Cable)             | Single Flange: 0.28oz  
  Dual Flange: 0.35oz                  |
| Options                              | Cable Spec, Connection Options and Labelling |

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

**MECHANICAL DETAILS**

**Single Flange**

Dimensions in inches

- Ø0.51”
- 0.33”
- 0.19”
- 0.551” (±0.002)
- Ø0.352”

**Dual Flange**

Straight Exit

- Ø0.51”
- 0.33”
- 0.19”
- Ø0.352”

90° Exit

- Ø0.165”
- 0.010”

**Electrical Details**

<table>
<thead>
<tr>
<th>+Ve Supply</th>
<th>0V Supply</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Black</td>
<td>White</td>
</tr>
</tbody>
</table>

**Sensors For:**
- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

**Services For:**
- Data Logging
- Telemetry
- Controls
- Wiring

**Contact Us**

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