NON-CONTACT SPEED SENSORS
WITH PULSE OUTPUT FROM 0 TO 20 kHz

- For Magnetic Targets/ Ferrous Metals
- Ideal for Measuring RPM, Tachometry and Speed Applications
- Normally Open Industrial Sensors, 3-Wire Configuration
- Rugged Construction for Dirty, Humid, Oily and Dusty Applications

The SPR101 sensor is ideal for RPM tachometer measurements. It is more than a simple Hall-effect switch. The SPR101 Series utilizes 2 hall effect sensors coupled with a permanent magnet in a bridge comparator circuit, which makes it capable of sensing from absolute 0 Hz to 20 kHz. The design also allows rotational direction detection if used with a non-symmetrical gear.

The Hall-effect design permits only magnetic targets such as ferrous metals to be used as gears.

SPECIFICATIONS
Excitation: 8-30 Vdc @ 20 mA with <10% ripple
Output: Square wave, amp equal to exc. voltage (max. current 40 mA)
Switch Frequency: 0-20 kHz
Switch: Open collector, 3-wire, normally open, reverse polarity protected
Sensing Distance: 0.5 mm (0.02")
Target: Magnetic, ferrous metals
Operating Temperature: -25 to 75°C (-13 to 168°F)
Min. Gear Size: 1 module (m)
Case Material: 12 mm nickel-plated brass rolled threads
Electrical Connection: 6 ft, 3-conductor, 22 AWG, PVC insulation, pigtail leads
Weight: 85 g (3 oz)
Case Material: 30 mm nickel-plated brass rolled threads
Electrical Connection: 3 screw terminals compression style 0.20-0.27" dia. wire
Weight: 225 g (9 oz)

ACCESSORIES**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBL-8/12</td>
<td>$10</td>
<td>L-shaped mounting bracket</td>
</tr>
<tr>
<td>DPF75</td>
<td>265</td>
<td>Compatible rate, batch, total meter</td>
</tr>
<tr>
<td>DPF402</td>
<td>470</td>
<td>Compatible rate, batch, total meter</td>
</tr>
<tr>
<td>DPF76</td>
<td>227</td>
<td>Compatible rate, batch, total meter</td>
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<tr>
<td>DPF701</td>
<td>260</td>
<td>Compatible batch total meter</td>
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<tr>
<td>DPC10-TL*</td>
<td>98</td>
<td>Compatible total meter</td>
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<tr>
<td>DPF78</td>
<td>243</td>
<td>Compatible rate meter</td>
</tr>
<tr>
<td>DPC10-RM</td>
<td>98</td>
<td>Compatible rate meter</td>
</tr>
</tbody>
</table>

*Requires external dc power supply such as PSS-D12A ($114)
**See Section D for compatible meters. Comes with complete operator’s manual.

Ordering Example: SPR101-12N, speed sensor with NPN output, + MBL-8/12, mounting bracket, + DPC10-RM, rate meter, + PSS-D12A, external power supply.
$180 + 10 + 98 + 114 = $402
More than 100,000 Products Available!

- **Temperature**

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  - Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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- **Data Acquisition**

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- **Heaters**

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