Gear Tooth Speed and Position Sensors

Features
- Hall Effect magnetic sensing technology
- Rotation insensitivity
- Multiple sensing technologies available
- Automotive under-the-hood packaging integrity
- EMI hardened
- High frequency switching capability
- -40 °C to 150 °C continuous operating temperature
- Packard 150 Metripak connector
- Short circuit protection
- Reverse voltage protection
- Multiple mounting lengths
- Multiple connector orientations
- Open collector output

Description
A family of Hall Effect gear tooth sensors that offer various sensing technologies within a common packaging scheme to better match magnetic performance to a given application.
- Edge / position sensing for applications requiring precise reference to features on a target
- 50 % duty cycle sensing for speed sensing of actual gear teeth
- Zero speed capability

The sensor packaging incorporates design flexibility to allow mounting length as well as connector position to be configured for specific customer applications.

Technical data

<table>
<thead>
<tr>
<th>Part number</th>
<th>Mounting length</th>
<th>Sensor type</th>
<th>Supply voltage</th>
<th>Supply current</th>
<th>Output current</th>
<th>Reverse voltage</th>
<th>Short circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>50006484</td>
<td>31.8 mm</td>
<td>Position/edge</td>
<td>4.5 to 26.5 V</td>
<td>20 mA max.</td>
<td>20 mA max.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>50006485</td>
<td>31.8 mm</td>
<td>50% DC, speed</td>
<td>4.5 to 26.5 V</td>
<td>20 mA max.</td>
<td>20 mA max.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>50006486</td>
<td>31.8 mm</td>
<td>Zero speed</td>
<td>4.5 to 24.0 V</td>
<td>20 mA max.</td>
<td>20 mA max.</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>50006488</td>
<td>62.4 mm</td>
<td>Position/edge</td>
<td>4.5 to 26.5 V</td>
<td>20 mA max.</td>
<td>20 mA max.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>50006489</td>
<td>62.4 mm</td>
<td>50% DC, speed</td>
<td>4.5 to 26.5 V</td>
<td>20 mA max.</td>
<td>20 mA max.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>50006490</td>
<td>62.4 mm</td>
<td>Zero speed</td>
<td>4.5 to 24.0 V</td>
<td></td>
<td></td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

WARNING
MISUSE OF DOCUMENTATION
- The information presented in this product sheet (or catalogue) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.
Failure to comply with these instructions could result in death or serious injury.

WARNING
PERSONAL INJURY
- DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.
Failure to comply with these instructions could result in death or serious injury.

NOTICE
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E-mail: adolfo.cano.munoz@honeywell.com
Telephone: +44 (0) 1698 48 1642
Fax: +44 (0) 1698 481014