Low Cost – 3 Axis Inclinometer

The SSY0271 is a low cost Digital 3-Axis Inclinometer that affords unparalleled accuracy, quality, reliability and value. Based on a 3-Axis MEMS Accelerometer the SSY0271 offers a wide angular range, low resolution and operates on a low current (4.5mA) +4.5 to +30VDC Input voltage. The rugged IP66 housing is ideal for harsh industrial applications.

**Applications**
- Aerospace
- Automotive
- Crane Safety Systems
- Industrial
- Marine Data
- Buoy
- Platform
- Leveling

### General Specifications
- **Temperature range**: -55°C to +125°C
- **Operating range**: -40°C to +80°C
- 3 axis inclinometer: Roll (x), Pitch (y) and Yaw (z)
- **Input Voltage**: 4.5Vdc to 30Vdc
- **Current**: 4.5mA
- **Resolution**: 0.01deg
- **Repeatability**: ±0.02 deg
- **Frequency response**: 2Hz
- **Offset shift with temperature**: ±0.002°/°C

### Ordering Information
- **Part Number**: SSY0271

### Electrical connections
- **Connector C10036**

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Signal name</th>
<th>DB9 Female Connector pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>GND</td>
<td>5</td>
</tr>
<tr>
<td>Red</td>
<td>Power</td>
<td>N/A</td>
</tr>
<tr>
<td>Green</td>
<td>B (+)</td>
<td>3</td>
</tr>
<tr>
<td>White or Yellow</td>
<td>A (-)</td>
<td>2</td>
</tr>
</tbody>
</table>

### Pricing
- $48.50ea. @ 1,000pcs

**Specifications are subject to change without notice!**

Doc.# SDS-140-4214
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Physical Dimensions

NOTE: ALL DIMENSIONS ±0.016° (0.25MM)

Measuring Directions

<table>
<thead>
<tr>
<th>Vertical view</th>
<th>Horizontal view</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pitch</strong></td>
<td><strong>Pitch</strong></td>
</tr>
<tr>
<td><strong>Z-Axis</strong></td>
<td><strong>Roll</strong></td>
</tr>
</tbody>
</table>

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