SUN SENSOR ISS-DX (DIGITAL)

Solar MEMS ISS-DX Sun Sensor provides the position of the sun with a high accuracy.

It has been designed with an unique and novel own technology based on MEMS fabrication processes to achieve high integrated sensing structures at low cost.

ISS-DX device provides the incident angle of a sun ray in two axes and the direct solar radiation via a communication interface. The high sensitivity is based on geometrical dimensions of the design and calibration processes during production.

Its characteristics make it a suitable tool for high accurate sun-tracking and positioning systems, with low power consumption and high reliability.

Versions of the ISS-DX Sun Sensor

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>ISS-D60</th>
<th>ISS-D25</th>
<th>ISS-D15</th>
<th>ISS-D5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of view (FOV)</td>
<td>120 x 120</td>
<td>50 x 50</td>
<td>30 x 30</td>
<td>10 x 10</td>
</tr>
<tr>
<td>Accuracy in FOV</td>
<td>&lt; 0,4</td>
<td>&lt; 0,3</td>
<td>&lt; 0,2</td>
<td>&lt; 0,1</td>
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<tr>
<td>Accuracy on zero degrees</td>
<td>&lt; 0,06</td>
<td>&lt; 0,04</td>
<td>&lt; 0,02</td>
<td>&lt; 0,005</td>
</tr>
</tbody>
</table>

Technical Specifications

- Sensor type: two axes
- Power supply: 5\textpm{}12 V
- Consumption: 33 mA (average)
- Interface: RS-485 (MODBUS optional)
  up to 15 sensors/bus
  0.05 s response time
- Data output: Angles X & Y (filter included)
  Direct Solar Radiation
- Temperature: -40° to 85°C
- Protection: Reverse polarity
  IP65

Cable of 2 meters without connector.
Ask for the USB-RS485 converter, suitable to work with our Sun Sensor ISS-DX.