CUTTING-EDGE 3D SENSORS FOR INSPECTION, GUIDANCE AND MEASUREMENT

3D GOES HD
HIGH DEFINITION SENSORS OPEN UP RANGE OF NEW 3D APPLICATIONS

HIGHEST RESOLUTION IDENTIFY SMALLER DEFECTS
INCREASED ACCURACY FOR PRECISE MEASUREMENT
MORE 3D POINTS/SEC FOR FAST PRODUCTION LINES
LARGER FIELD OF VIEW SCAN BIGGER OBJECTS
**MODEL**

<table>
<thead>
<tr>
<th></th>
<th>ECCO 75.030</th>
<th>ECCO 75.100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field of view [mm]</strong></td>
<td>near</td>
<td>mid</td>
</tr>
<tr>
<td><strong>Measurement range [mm]</strong></td>
<td>16</td>
<td>100</td>
</tr>
<tr>
<td><strong>Stand-off distance [mm]</strong></td>
<td>60</td>
<td>150</td>
</tr>
<tr>
<td><strong>Typical vertical resolution [µm]</strong></td>
<td>1.4 – 1.8</td>
<td>5 – 12</td>
</tr>
<tr>
<td><strong>Typical lateral resolution [µm]</strong></td>
<td>18 – 20</td>
<td>42 – 70</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 480 g</td>
<td>Approx. 480 g</td>
</tr>
<tr>
<td><strong>Part number</strong></td>
<td>3.002.121</td>
<td>3.002.120</td>
</tr>
</tbody>
</table>

**Maximum points / 3D profile**

- 1920

**Typical scan rate**

- Approx. from 150 Hz up to 4 kHz

**Interface**

- Gigabit Ethernet (1 Gbit/sec)

**Inputs**

- 4 x Inputs, 5 – 24 VDC
- Quadrature Encoder (AB-Channel, RS-422 standard)

**Outputs**

- 2 x Outputs, 24 VDC

**Input voltage | Power**

- 24 VDC, ± 15 % ripple | 7.5 W

**Laser wavelength**

- 660 nm

**Laser class**

- standard | optional

**EMC test**

- as per EN 61 000-6-2, EN 61 000-6-4

**Vibration / Shock test**

- as per EN 60 068-2-6, -27, -29, -64

**Electrical safety**

- as per EN 61 010-1-3

**Protection class**

- III, as per EN 61 040-3

**Enclosure rating**

- IP65

**Air humidity**

- Maximum 90%, non-condensing

**Temperature**

- operation | storage | 0 – 40 ° C | -20 – 70 ° C

* Scan rate is dependent on the configured field of view, measurement range & exposure time. The typical scan rate has been estimated with an exposure time of 1 µsec

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**STAND-OFF DISTANCE**

Optimum distance between the sensor and your part

**FOCUS**

**NEAR FIELD**

**MID FIELD**

**FAR FIELD**

**MEASUREMENT RANGE**

How thick is your part?

**FIELD OF VIEW**

How wide is your part?