ProH - Digital Camera Sensor

- Laser class II
- Compact design
- Easy to install
- Stable readings even in harsh conditions
- No safety measures required
- PC Software included
The Digital Camera Sensor Family ProH from Precimeter combines high performance laser triangulation with all the control functions you need to maintain an accurate molten metal level. The patented digital camera technology in the Precimeter sensors (US patent no 4,911,551), results in very high performance and accuracy. This enables the use of Laser Class II, which means that no special safety measures are required. The advanced technology makes it possible to give stable readings even when the material reflectivity changes dramatically and in harsh conditions like steam and smoke. The built in PI controller eliminates the need for an external industrial controller. This reduces the system cost and set up time.

Advantages
- No safety measures required, no yearly eye examination, no laser officer required.
- Stable readings even in difficult environments.
- Laser class II approved
- Easy to install
- Compact design
- Metal Level Control systems adapted to our actuators and sensors are available.
- **PC Software** gives access to all sensor parameters.

### Technical Specifications

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>ProH CD200R200</th>
<th>ProH CD240R325</th>
<th>ProH CD250R500</th>
<th>ProH CD450R300</th>
<th>ProH CD700R300</th>
<th>ProH CD900R500</th>
<th>ProH CD800R1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearance Distance</td>
<td>200 mm (7.9&quot;)</td>
<td>240 mm (9.4&quot;)</td>
<td>250 mm (9.8&quot;)</td>
<td>450 mm (17.7&quot;)</td>
<td>700 mm (27.6&quot;)</td>
<td>900 mm (35.4&quot;)</td>
<td>800 mm (31.5&quot;)</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>200 mm (7.9&quot;)</td>
<td>325 mm (12.8&quot;)</td>
<td>500 mm (19.7&quot;)</td>
<td>300 mm (11.8&quot;)</td>
<td>300 mm (11.8&quot;)</td>
<td>500 mm (19.7&quot;)</td>
<td>1500 mm (59.0&quot;)</td>
</tr>
</tbody>
</table>

- Light source: Laser diode 635 nm (visible red)
- Laser power: <1 mW, Class II
- Sampling frequency: 252 Hz
- Communication: RS232-C
- Analog output: 4-20 mA (optional 0-10 VDC, 0-20 mA)
- Temperature output: 4-20 mA (0-100 °C)
- Resolution: R/4096
- Non-linearity: ±0.2 % of measurement range
- Power requirement: 18-32 VDC, < 1 A
- Relative humidity: 25-85 % (non condensing)

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