Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

**ProSense PSD25 Series Technical Specifications**

- **Operating Voltage**: 9.6 to 32 VDC
- **Connection Pin Material**: Gold-plated
- **Output Maximum Load Current**: 500 mA - See Setting and Operation Guide on following page.
- **Current Consumption**: < 25 mA
- **Switching Frequency**: 100 Hz
- **Setting Accuracy of Switch Points**: < ± 2.5% of full range (limit point calibration)
- **Repeatability**: < ± 0.5% of full range
- **Temperature Drift**: < ± 0.5%, of full temperature range/10 K; 32 to 176°F (0 to 80°C)
- **Housing Material**: PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel (316S12)
- **Materials (wetted parts)**: Stainless steel (316S12)
- **Operating Temperature**: –13 to 176°F (–25 to 80°C)
- **Medium Temperature**: –13 to 176°F (–25 to 80°C)
- **Storage Temperature**: –40 to 212°F (–40 to 100°C)
- **Protection**: IP67
- **Protection Class**: Class III
- **Insulation Resistance**: > 100 MΩ (500 VDC)
- **Shock Resistance**: 50g (DIN / IEC 68-2-27, 11ms)
- **Vibration Resistance**: 20g (DIN / IEC 68-2-6, 10 - 2000 Hz)
- **EMC**:
  - EN 61000-4-2 ESD
  - EN 61000-4-3 HF Radiated
  - EN 61000-4-4 Burst
  - EN 61000-4-6 HF Conducted
- **Agency Approvals**:
  - cULus, File number E320431
  - CE
  - RoHS

### ProSense Series Pressure Sensors

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Pcs/Pkg</th>
<th>Wt(lb)</th>
<th>Price</th>
<th>Cable Assemblies</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD25-0P-0145H</td>
<td>Pressure switch, DC, PNP NO/NC, 7.5 to 145 psig range, 1/4&quot; NPT male port</td>
<td>1</td>
<td>0.21</td>
<td>$90.00</td>
<td>CD12L-0B-020-A0</td>
</tr>
<tr>
<td>PSD25-0P-1450H</td>
<td>Pressure switch, DC, PNP NO/NC, 75 to 1450 psig range, 1/4&quot; NPT male port</td>
<td>1</td>
<td>0.21</td>
<td>$90.00</td>
<td>CD12L-0B-030-C0</td>
</tr>
<tr>
<td>PSD25-0P-5800H</td>
<td>Pressure switch, DC, PNP NO/NC, 290 to 5800 psig range, 1/4&quot; NPT male port</td>
<td>1</td>
<td>0.21</td>
<td>$90.00</td>
<td>CD12M-0B-070-A1</td>
</tr>
</tbody>
</table>

**Accessory**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Pcs/Pkg</th>
<th>Wt(lb)</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD-CV</td>
<td>Transparent plastic protective cap for PSD series</td>
<td>1</td>
<td>0.01</td>
<td>$3.25</td>
</tr>
</tbody>
</table>

Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

### ProSense PSD25 Series Pressure Switches

- **Features**:
  - Compact pressure switch features simple setup using mechanical adjustment dials
  - Extremely durable housing with 316 stainless steel process connection
  - No moving parts ensure long-term stability without setpoint drift
  - LEDs indicate switching and operating status
  - Complementary switching outputs (N.O./N.C.), DC
  - Easy set-up dials
  - Vibration and shock-resistant

### Applications (Type of Pressure: Relative Pressure, Liquids and Gases)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Setpoint Scale</th>
<th>Resetpoint Scale</th>
<th>Permissible Overload Pressure</th>
<th>Bursting Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD25-0P-5800H</td>
<td>20 to 400 (290 to 5800)</td>
<td>12 to 392 (175 to 5685)</td>
<td>600 (8700)</td>
<td>1600 (23200)</td>
</tr>
<tr>
<td>PSD25-0P-1450H</td>
<td>5 to 100 (75 to 1450)</td>
<td>3 to 98 (50 to 1420)</td>
<td>200 (2900)</td>
<td>1000 (14500)</td>
</tr>
<tr>
<td>PSD25-0P-0145H</td>
<td>0.5 to 10 (7.5 to 145)</td>
<td>0.3 to 9.8 (5 to 142)</td>
<td>25 (362)</td>
<td>300 (4350)</td>
</tr>
</tbody>
</table>

Note: Full vacuum permissible

**WARNING! AVOID STATIC AND DYNAMIC OVERPRESSURE EXCEEDING THE GIVEN OVERLOAD PRESSURE. EXCEEDING THE BURSTING PRESSURE FOR EVEN A SHORT TIME CAN CAUSE DESTRUCTION OF THE UNIT AND POSSIBLE INJURIES!**
Switch Dimensions

Switch Cover Dimensions

Note: tightening torque 25 Nm (18.4 lb-ft)

PSD25 Wiring Diagrams

Cable Assembly Wiring Colors:
- Pin 1 - Brown
- Pin 2 - White
- Pin 3 - Blue
- Pin 4 - Black

Note: wiring colors are based on AutomationDirect CD12L and CD12M 4-pole cable assemblies.

Setting and Operation

1. locking ring
2. setting rings (manually adjustable after unlocking)
3. LED green: supply voltage O. K.
4. process connection ¼” NPT; tightening torque 25 Nm
5. setting marks
6. LED yellow: Set value reached, OUT1 = ON / OUT2 = OFF
7. internal thread M5
   - Minimum distance between Set and Reset = 2% of the final value of the measuring range.
   - To obtain the setting accuracy: Set both rings to the minimum value, then set the requested values.