The Series PLS2 is an electromechanical level switch designed for level monitoring of bulk materials. The rotating measuring vane is driven by a brushless synchronous motor at one revolution per minute. As product builds up, the paddle rotation is impeded and the resulting motor torque activates the output switch and stops the motor. A spring mechanism reactivates the motor and returns the switch to normal state when the material no longer impedes the paddle rotation. A torque adjusting mechanism eliminates the need for different sized paddles. The PLS2 is designed with the industry standard 1-1/4˝ male NPT connection and unit can be side or top mounted.

**FEATURES**
- 3 sensitivity settings
- Top or side mountable
- Brushless synchronous motor; Assures long term reliability and efficiency
- Motor shuts off when paddle stalls
- Screw cover: For easy access with no worries about losing bolts or screws

**APPLICATION**
- Level monitoring of bulk materials

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>PLS2-E-1-1</td>
<td>Explosion-proof paddle level switch, 115 VAC power supply</td>
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<td>PLS2-E-1-2</td>
<td>Explosion-proof paddle level switch, 230 VAC power supply</td>
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<tr>
<td>PLS2-E-1-3</td>
<td>Explosion-proof paddle level switch, 24 VDC power supply</td>
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</table>

**ACCESSORIES**
- PLS2-PL1, Double Sided Spring Paddle
- PLS2-PL2, Single Sided Spring Paddle
- PLS2-EX1, 8.5˝ Shaft Extension
- PLS2-EX2, 19.6˝ Shaft Extension
- PLS2-EX3, 39.4˝ Shaft Extension
- PLS2-EX4, 78.7˝ Shaft Extension

**SPECIFICATIONS**
- **Service:** Dry powder or bulk materials compatible with wetted materials.
- **Wetted Materials:**
  - Paddle: 304 SS;
  - Exposed shaft: 303 SS;
  - Shaft seal: NBR;
  - Process connection: Aluminum.
- **Temperature Limits:**
  - Process: -13 to 176°F (-25 to 80°C);
  - Ambient: -4 to 140°F (-20 to 60°C).
- **Pressure Limit:** 11.6 psi (0.8 bar).
- **Power Requirement:** Select by model number: 115 VAC, 230 VAC or 24 VDC.
- **Power Consumption:** AC versions: 4 VA; DC version: 2.5 watt.
- **Enclosure:** Aluminum, powder coated.
- **Enclosure Rating:** NEMA 4 (IP66); Rated for Class II & III, Div. 1, Group E, F, G.
- **Switch Type:** SPDT micro switch.
- **Electrical Rating:** 5 A @ 250 VAC, 3 A @ 30 VDC.
- **Electric Connections:** Screw terminals.
- **Conduit Connection:** 3/4˝ female NPT.
- **Process Connection:** 1-1/4˝ male NPT.
- **Mounting Orientation:** Side or top mounting.
- **Sensitivity:** Minimum material density of 6 lb/ft³ (96 kg/m³).
- **Permitted Mechanical Loading:**
  - Standard shaft: 67 lbf (300 N) max;
  - Optional extension: 22 lbf (100 N) max.
- **Weight:** 2.6 lb (1.2 kg).
- **Agency Approvals:** CE, FM.