**Paddle Level Switch**

**Economical Rotary Paddle Level Control, Top or Side Mounting for Dry Bulk Materials**

**FEATURES**
- **Magnetic drive** that isolates and completely seals the control head from the process and environment preventing material or dust from entering the control head.
- **Motor shuts-off** when paddle stalls increasing motor life, preventing motor burnout, and decreasing power usage.
- **Slip clutch design** enabled by the magnetic drive that prevents damage to motor and drive mechanism from sudden or excessive loading on the paddle.
- **Status indication light** on weatherproof models.
- **Screw cover** on the enclosure for easy access with no worries about losing bolts or screws.
- **Modular design** to allow field installation of any paddle, flanges, shaft extensions, or shaft guards.

**SPECIFICATIONS**

**Service:** Dry powder or bulk materials compatible with wetted materials.

**Sensitivity:** Minimum material density of 5 lb/ft³ (80 kg/m³), maximum of 200 lb/ft³ (3200 kg/m³).

**Wetted Materials:**
- Paddles: 316 SS; Exposed shaft: 316 SS; Shaft seal: PTFE;
- Mounting boss: Aluminum; Flexible coupling: 316 SS;
- Mounting flanges: Carbon steel or 316 SS;
- Shaft extension and shaft guards: Galvanized steel or 316 SS.

**Temperature Limits:**
- Standard construction: Process: -40 to 300°F (-40 to 148.9°C);
- Ambient: -40 to 185°F (-40 to 85°C);
- High temperature option: Process: -40 to 500°F (-40 to 260°C);
- Ambient: -40 to 185°F (-40 to 85°C).

**Pressure Limit:** 30 psig (2.07 bar) maximum for .5 micron or larger material.

**Power Requirement:** Select by part number: 110-120 VAC, 230 VAC, 24 VAC, 48 VAC, 12 VDC, or 24 VDC.

**Power Consumption:** Weatherproof models: 5 watts; Explosion-proof models: 3 watts.

**Enclosure:** Aluminum, powder coated.

**Enclosure Rating:** Weatherproof (W, WH construction): NEMA 4X; Explosion-proof (E, EH construction): NEMA 4X and rated for Class I, Div. 1 & 2, Groups C & D, Div. 1 & 2, Groups E, F, & G.

**Switch Type:** SPDT or optional DPDT snap switch.

**Electrical Rating:** 15A @ 120/230 VAC, 5A @ 24 VDC.

**Electric Connections:** Screw terminals.

**Conduit Connection:** 3/4˝ female NPT.

**Process Connection:** 1-1/4˝ male NPT. Optional flange.

**Weight:** Control head only: 4 lb (1.81 kg).

**Indication Light:** Red LED that activates when switch is made or when switch is not made with RL option (Not available on explosion-proof models).

**Options:** Time delay relay, high temperature construction, top mount, shaft extensions, shaft shields, flexible couplings, other power voltages, reversed light.

**Agency Approvals:** UL approved as an auxiliary device or as an auxiliary device for hazardous locations.

**Control Assemblies**

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Weatherproof construction, SPDT switch, 120 VAC power supply. Order paddles and flanges separately.</td>
<td>$201.00</td>
</tr>
<tr>
<td>Weatherproof construction, SPDT switch, 120 VAC power supply, includes PDL-3 paddle.</td>
<td>$225.50</td>
</tr>
<tr>
<td>Weatherproof construction, SPDT switch, 120 VAC power supply, includes PDL-1 paddle and FLG-CSH flange.</td>
<td>$246.25</td>
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</tbody>
</table>

**Paddles**

<table>
<thead>
<tr>
<th>Paddles</th>
<th>Price</th>
<th>Flanges</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDL-1</td>
<td>$24.50</td>
<td>FLG-CSH</td>
<td>Carbon Steel with Half Coupling</td>
<td>$22.00</td>
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<tr>
<td>PDL-2</td>
<td>23.25</td>
<td>FLG-CSF</td>
<td>Carbon Steel with Full Coupling</td>
<td>24.50</td>
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<tr>
<td>PDL-3</td>
<td>24.50</td>
<td>FLG-SH</td>
<td>316 SS with Half Coupling</td>
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<td>PDL-4</td>
<td>23.25</td>
<td>FLG-SSF</td>
<td>316 SS with Full Coupling</td>
<td>70.00</td>
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Contact the factory for pricing of shaft extensions, protective shields, and other options. More detailed information available in our Measurement & Control for Powder, Dust, and Bulk Materials Catalog.