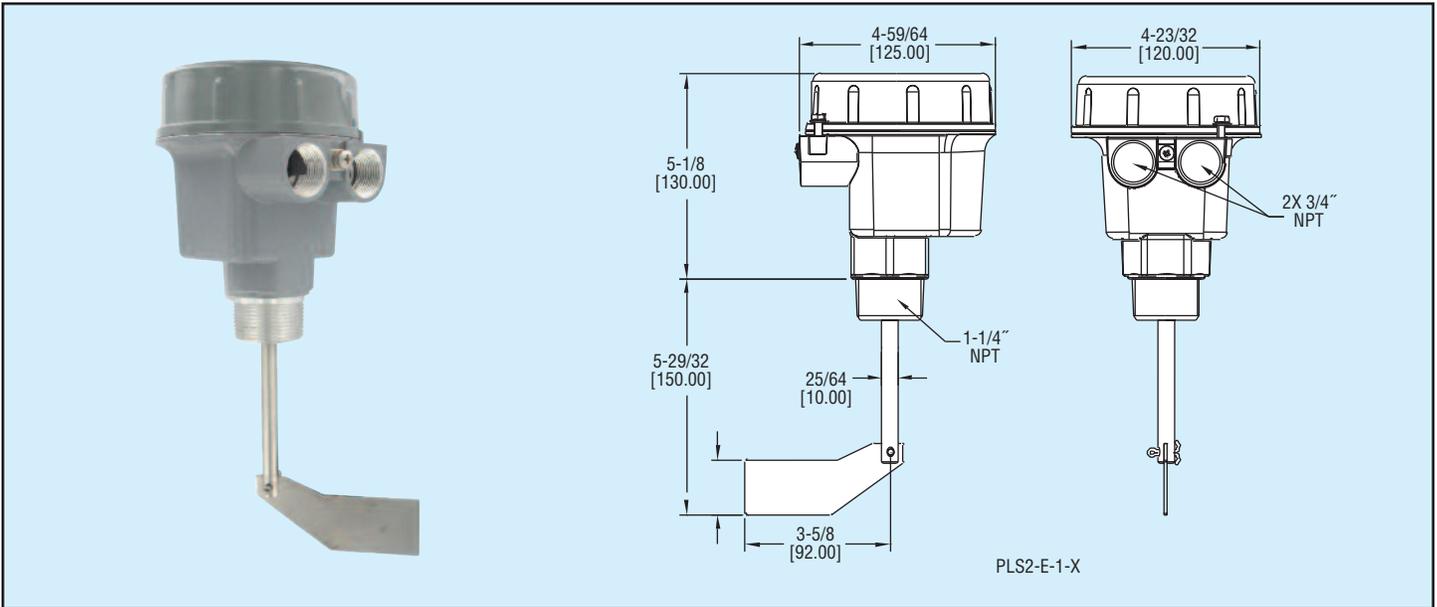




Series  
PLS2

# Paddle Level Switch

3 Sensitivity Settings, Top or Side Mounting



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

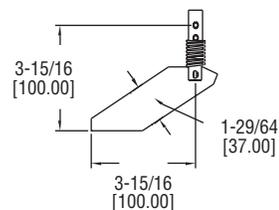
### APPLICATION

- Level monitoring of bulk materials

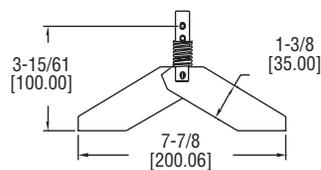
Model	Description
PLS2-E-1-1	Explosion-proof paddle level switch, 115 VAC power supply
PLS2-E-1-2	Explosion-proof paddle level switch, 230 VAC power supply
PLS2-E-1-3	Explosion-proof paddle level switch, 24 VDC power supply

### 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



PLS2-PL1



PLS2-PL2

### 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/ft<sup>3</sup> (96 kg/m<sup>3</sup>).

#### 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.