**MINI-BIN DRY BULK LEVEL MONITOR**

**Compact, 4-Vane Paddle**

The Model DBLM Mini-Bin Dry Bulk Level Monitor provides reliable level sensing for dry bulk solids where mounting space is limited. Model DBLM Mini-Bin operates by using a 1 rpm synchronous motor to rotate a four vane, plastic paddle, and when material surrounds paddle and impedes rotation, the motor is de-energized and triggers a SPDT snap switch. Mount the Mini-Bin with optional 1-1/4” to 3/4” reducer to replace standard size units.

**FEATURES/BENEFITS**

- Compact, side mount control reports high, intermediate, and low level conditions, eliminating overflows, choking, clogs or empty vessels
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- Unaffected by the dielectric constant of the sensed material, making it superior to a capacitance level switch for applications where the dielectric constant is too low, where there is more than one material being used in one vessel, and when material moisture content can change
- Motor shuts ceases operation when paddle stalls
- Brushless synchronous motor assures long term reliability and efficiency
- Torque adjusting mechanism eliminates the need for different sized paddles
- Top or side mountable for added installation flexibility
- Screw cover for easy access with no worries about losing bolts or screws
- Optional extension: 22 lbf (100 N) max; Standard shaft: 67 lbf (300 N) max;
- Process: -13 to 176°F (-25 to 80°C); Ambient: -4 to 140°F (-20 to 60°C).

**APPLICATIONS**

- Mining
- Food and beverage
- Grain silos
- Hoppers

**SPECIFICATIONS**

- Service: Dry bulk solids.
- Wetted Materials: Polycarbonate paddle, SS shaft, PTFE washer.
- Temperature Limits: -4 to 140°F (-20 to 60°C).
- Enclosure Rating: Polycarbonate, NEMA 1 (IP10).
- Switch Type: SPDT snap switch.
- Electrical Rating: 3 A @ 250 VAC, 5 A @ 30 VDC.
- Power Requirements: 110 VAC, 50/60 Hz, 220 VAC optional, consult factory.
- Weight: 0.77 Ib (350 g).

**ACCESSORIES**

- Model: F1
- Description: 8” x 1-1/4” NPT flexible carbon steel mounting flange
- Model: A-335
- Description: 1-1/4” to 3/4” reducer 220

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**SERIES PL2**

**PADDLE LEVEL SWITCH**

3 Sensitivity Settings, Top or Side Mounting

The Series PL2 Paddle Level Switch 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 and as product builds up, the paddle rotation is impeded and the resulting motor torque activates the output switch and stops the motor. The PL2 is designed with the industry standard 1-1/4” male NPT connection and unit can be side or top mounted.

**FEATURES/BENEFITS**

- Torque adjusting mechanism eliminates the need for different sized paddles
- 3 sensitivity settings for spring force can be set for light to very sticky materials
- Brushless synchronous motor assures long term reliability and efficiency
- Motor shuts ceases operation when paddle stalls
- Screw cover for easy access with no worries about losing bolts or screws
- Top or side mountable for added installation flexibility
- Unaffected by the dielectric constant of the sensed material, making it superior to a capacitance level switch for applications where the dielectric constant is too low, where there is more than one material being used in one vessel, and when material moisture content can change

**APPLICATIONS**

- Mining
- Food and beverage
- Silos
- Hoppers

**SPECIFICATIONS**

- Service: Dry powder or bulk materials compatible with wetted materials.
- Temperature Limits: Process: -13 to 176°F (-25 to 80°C); Ambient: -4 to 140°F (-20 to 60°C).
- Pressure Limit: 140°F (-20 to 60°C).
- Power Consumption: AC versions: 4 VA; DC version: 2.5 watt.
- Enclosure: Aluminum, powder coated.
- Agency Approvals: CE, FM.
- Weights: 2 lb (1.2 kg).

**ACCESSORIES**

- Model: PLS2-PL1
- Description: Single sided spring paddle
- Model: PLS2-PL2
- Description: Double sided spring paddle
- Model: PLS2-EX1
- Description: 8.5” shaft extension
- Model: PLS2-EX2
- Description: 19.8” shaft extension
- Model: PLS2-EX3
- Description: 39.4” shaft extension
- Model: PLS2-EX4
- Description: 78.7” shaft extension