LEVEL

MINI-BIN DRY BULK LEVEL MONITOR
Compact, 4-Vane Paddle

The MODEL DBLM Mini-Bin Dry Bulk Level Monitors 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
• 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
• Grain silos
• Hoppers

MODEL CHART
Model | Power Supply
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DBLM3040 | 110 VAC
DBLM3140 | 220 VAC

SERIES PLS2 | PROXIMITY® BY DWYER
PADDLE LEVEL SWITCH
3 Sensitivity Settings, Top or Side Mounting

The SERIES PLS2 Paddle Level Switches 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 PLS2 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 cove 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

MODEL CHART
Model | Description
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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
Note: Models include single sided non-spring paddle.

SPECIFICATIONS
Service: Dry powder or bulk materials compatible with wetted materials.
Temperature Limits: Process: -13°F to 176°F (-25 to 80°C); Ambient: -4°F to 140°F (-20 to 60°C).
Pressure Limit: 15 psi @ 30 VDC.
Power Consumption: AC versions: 4 VA; DC version: 2.5 watt.
Enclosure: Aluminum, powder coated.
Rated for Class II & III, Div. 1, Group E, F, G.

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

Switch Type: SPDT micro switch.
Electrical Rating: 5 A @ 250 VAC, 3 A @ 30 VDC.
Electrical Connections: Screw terminals.
Conduit Connection: 3/4˝ female NPT.
Process Connection: 1-1/4˝ male NPT.
Mounting Orientation: Side or top mounting.
Sensitivity: Min. material density of 6 lb/ft³ (98 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.