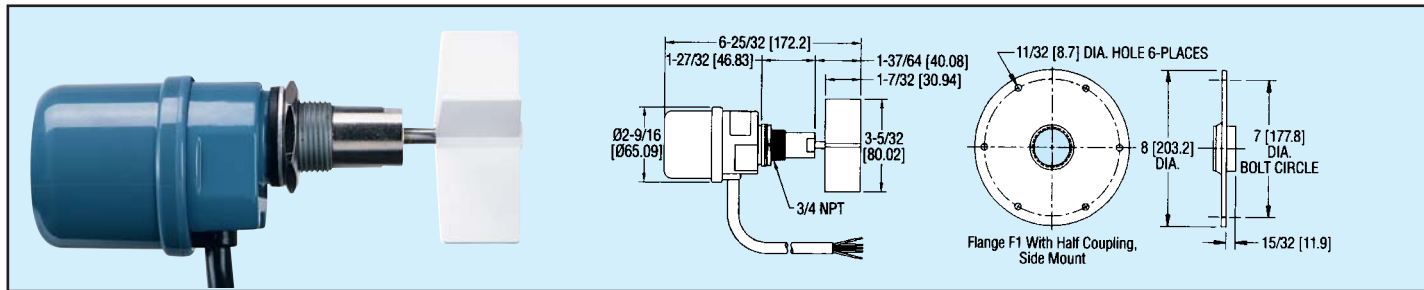




Model DBLM

# Mini-Bin Dry Bulk Level Monitor

Compact, 4-Vane Paddle



The Mini-Bin provides reliable level sensing for dry bulk solids where mounting space is limited. This compact, side mount control reports high, intermediate, and low level conditions, eliminating overflows, choking, clogs or empty vessels. Model DBLM Mini-Bin operates by using a 1 rpm synchronous motor to rotate a four vane, plastic paddle. When material surrounds the paddle and impedes rotation, the motor is de-energized and triggers a SPDT snap switch. Mount the Mini-Bin with optional 1/4" to 3/4" reducer to replace standard size units.

### SPECIFICATIONS

**Service:** Dry bulk solids.  
**Wetted Materials:** Polycarbonate paddle, SS shaft, Teflon® washer.  
**Temperature Limits:** -4 to 140°F (-20 to 60°C).  
**Enclosure Rating:** Polycarbonate, NEMA 1.  
**Switch Type:** SPDT snap switch.  
**Electrical Rating:** 3A @ 250 VAC.  
**Power Requirements:** 110 VAC, 50/60 Hz, 220 VAC optional, consult factory.  
**Power Consumption:** 1.5 Watts.  
**Electrical Connections:** 18 AWG, 12" leads wrapped in conduit.  
**Process Connection:** 3/4" male NPT, optional flange and 1-1/4" to 3/4" reducer.  
**Mounting Orientation:** Side mount.  
**Weight:** 0.77 lb (350 g).  
**Agency Approvals:** CE.

### STOCKED MODELS

Model Number	Power Supply
DBLM3040	110 VAC
DBLM3140	220 VAC

F1, 8"x 1/4" NPT flexible carbon steel mounting flange.....  
A-335, 1/4" to 3/4" reducer.....

### Suggested Specifications

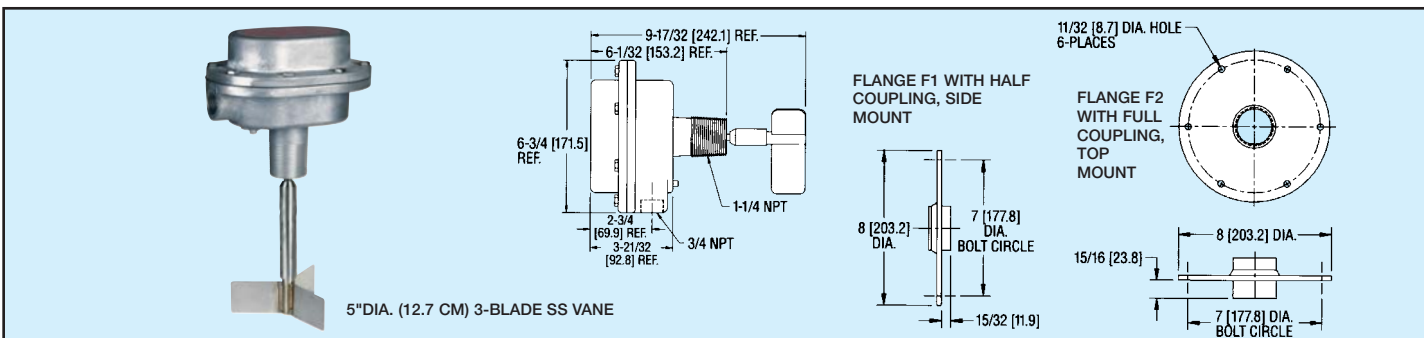
Miniature dry bulk level control shall be vane operated to actuate a SPDT snap action switch. Power consumption shall be 1.5 watts. The motor shall de-energize when rotation is impeded. The housing shall be plastic, suitable for NEMA 1 service. Switch shall be Proximity Model No. DBLM 3040.



Series DBL

# Bin Level Monitor

For Dry Bulk Materials Indication and Control, Side or Top Mount



Simple, reliable weatherproof operation at low cost. A durable 1 rpm synchronous motor rotates a stainless steel paddle which senses the presence or absence of dry bulk granular material. With proper placement, the control can report high, intermediate or low conditions, eliminating overflows, empty bins, choking or clogs in nearly any storage bin or tank. Ideal for most free flowing granular materials, this device can be quickly mounted on either the side or top of the container with an industry standard steel mounting flange and vane type stainless steel paddle.

### SPECIFICATIONS

**Service:** Dry bulk solids.  
**Wetted Materials:** 316 stainless steel paddle, bearings and shaft. PTFE lip seal rated @ 30 psig.  
**Temperature Limits:** 200°F (93°C).  
**Pressure Limits:** 30 psig.  
**Enclosure Rating:** Aluminum, rated for NEMA 4, 5 and 12 service.  
**Switch Types:** (2) SPDT snap switches.  
**Electrical Rating:** 15A @ 125 VAC, 0.5A @ 125 VDC.  
**Power Requirements:** 115 VAC, 50/60 Hz. 220 VAC optional, consult factory.  
**Power Consumption:** 3 watts.  
**Conduit Connection:** 3/4" NPT.  
**Process Connection:** Industry standard flange, 8" O.D., 7" Dia. bolt circle or 1-1/4" NPT threaded coupling.  
**Conduit Connection:** 3/4" NPT.  
**Weight:** Complete unit, approx. 8 lb (3.6 kg). Power Pack only, Approx. 5 lb (2.3 kg).

DBL1010F1 .....	DBL2010F2 .....
DBL1020F1 .....	DBL2020F2 .....
DBL1030F1 .....	DBL2030F2 .....
DBL1030F3 .....	DBL2030F4 .....
DBL1000P .....	

### STOCKED MODELS in bold

Side Mount	Top Mount	Supplied With
<b>DBL1010F1</b>	<b>DBL2010F2</b>	5" dia., 3-vane SS paddle and flange
<b>DBL1020F1</b>	<b>DBL2020F2</b>	2 1/2" single vane SS paddle & flange
<b>DBL1030F1</b>	<b>DBL2030F2</b>	Insertable curved SS paddle & flange
<b>DBL1030F3</b>	<b>DBL2030F4</b>	Insertable curved SS paddle, no flange
<b>DBL1000P</b>	<b>DBL1000P</b>	Power Pack only

**NOTE:** The Power Pack consists of a motor mounted in the weatherproof head assembly and is completely interchangeable with all major competitive weatherproof models.

### PADDLES

- Three vane stainless steel paddle. For material 30 to 70 lbs. per cubic foot. Turns in 5" (12.7 cm) diameter.
- 2 1/2" single vane insertable stainless steel paddle. For material 70 to 90 lbs. per cubic foot. Turns in 5" (12.7 cm) diameter.
- Easy mount insertable curved stainless steel paddle. For material 30 to 70 lbs per cubic foot. Turns in 6 1/2" (16.5 cm). Length 10 1/2" (26.7 cm).

