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 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.

**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:** NEMA 1 (IP10).
- **Switch Type:** SPDT snap switch.
- **Power 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBLM3040</td>
<td>110 VAC</td>
</tr>
<tr>
<td>DBLM3140</td>
<td>220 VAC</td>
</tr>
</tbody>
</table>

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

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**Series NCS-10 Through Wall Capacitive Sensor**

**Non-Contact, Thin Profile Level Sensor**

**FEATURES**
- Thin profile capacitive level sensor
- Withstands electrostatic discharge up to 40 kV
- Sensing distance: 0.039 to 0.39" (1 to 10 mm)
- Teach-in of sensing distance via push-button or wire-input
- Selectable make or break switching by means of teach-in function
- Protection: Short-circuit, transients and reverse polarity
- Alarm output
- Alarm output when operating current > 250 mA

Model NCS-10P, PNP
Model NCS-10N, NPN

**SPECIFICATIONS**
- **Service:** Solids, liquids, or slurries.
- **Temperature Limits:** Operating temperature: -20 to 80°C (-4 to 176°F); Storage temperature: -40 to 185°F (-40 to 85°C).
- **Enclosure Rating:** NEMA 4X (IP66).
- **Repeatability:** 5%.
- **Power Requirements:** 10 to 30 VDC (ripple incl.).
- **Switch Type:** PNP or NPN.
- **Electrical Rating:** 200 mA (continuous).
- **Rated Operating Distance (S_o):** 0.39" (10 mm).
- **Sensing Range:** 0.039 to 0.39" (1 to 10 mm) (factory set at 10 mm).
- **Sensitivity Effective Operating Distance (S_r):** Adjustable (teach-in) 0.9 x S_o ≤ S_r ≤ 1.1 x S_o.
- **Usable Operating Distance (S_u):** 0.8 x S_r ≤ S_u ≤ 1.2 x S_r.
- **Hysteresis:** Depending on teach-in.
- **Ripple:** ≤ 10%.
- **No-load Supply Current:** ≤ 12 mA.
- **Voltage Drop:** ≤ 2.5 VDC @ max load.
- **Protection:** Short-circuit, reverse polarity, transients.
- **Frequency of Operating Cycles:** 10 Hz.
- **Indication:** For output ON, LED, yellow; For safe/unsafe, LED, green.
- **Connection:** Cable: Black, 6.5" (2 m), 4 x 0.14 mm², oil proof, PVC.
- **Weight:** 50 g.
- **Approvals:** CE.