**Level Switches, Capacitive**

**LEVEL**

**Model DBLM**

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, clogging, 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.

**Mini-Bin Dry Bulk Level Monitor**

**Compact, 4-Vane Paddle**

**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).

**Switch Type:** SPDT snap switch.

**Electrical Rating:** 200 mA (continuous).

**Rated Operating Distance (S_o):** 0.39” (10 mm).

**Sensing Range:** 0.035 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.

**Power Requirements:** 10 to 30 VDC (ripple incl.).

**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/un safe: LED, green.

**Connection:** Cable: Black, 6.5” (2 m), 4 x 0.14 mm², oil proof, PVC.

**Weight:** 50 g.

**Agency Approvals:** CE.

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