



DIAPHRAGM POINT LEVEL CONTROLS

for use with
free flowing
dry materials

- Simple rugged construction
- Low cost
- High, intermediate or low level applications

BinMaster diaphragms provide automatic level indication of free flowing dry materials in high, intermediate and low level applications. They are designed for use in internal, external and explosion proof installations.

The unit operates by sensing material pressing against the diaphragm. This actuates a sensitive micro switch which can be wired to actuate a visual or audible alarm, or a stop/start process.

BinMaster diaphragms – simple, low cost point level control with lasting reliability.

Diaphragm Pressure Sensitive Level Indicators

BM45 series – General Purpose, Internal Mount

This economical indicator is designed for nonhazardous applications. The simple operating mechanism makes it reliable and requires minimal maintenance.



BM45-R

- **BM45-R**
Standard Neoprene Diaphragm - Internal Mount
- **BM45-RH**
Heavy Duty Neoprene Diaphragm - Internal Mount
- **BM45-RHT**
Heavy Duty Silicone Diaphragm - Internal Mount

General Purpose, External Mount

The design of the BM45 Series permits mounting of the entire unit outside the bin, making the operation mechanism easily accessible.

- **BM45-F**
Standard Neoprene Diaphragm - External Mount
- **BM45-FH**
Heavy Duty Neoprene Diaphragm - External Mount
- **BM45-FHT**
Heavy Duty Silicone Diaphragm - External Mount

NOTE: For all BM45 and BM65 Series
The Heavy Duty versions have a thicker diaphragm and the snap-action switch is less sensitive. These units are designed for heavier materials and low level installation.

The Silicone Diaphragm versions are designed to remain more resilient and sensitive in extreme temperature conditions.

SPECIFICATIONS: Housing: Rugged die-cast aluminum
Diaphragm: Neoprene (standard or heavy), Silicone
Switch: Snap-action, 15 amp, 125, 250, or 480 VAC

Mounting Plate: 16 ga. galvanized steel
Dimensions: 6 5/8" wide, 7" high, 2 5/8" deep
Shipping Weight: 2 1/2 lbs.

BM65 series – Explosion Proof, Internal Mount

The BM65 series has the same operating benefits as the BM45 series but is designed for use in hazardous atmospheres charged with combustible dust. The BM65 series is listed by U/L for Class II, Groups E, F and G.

- **BM65-R**
Standard Neoprene Diaphragm - Internal Mount
- **BM65-RH**
Heavy Duty 1/16" Neoprene Diaphragm - Internal Mount
- **BM65-RHT**
Heavy Duty Silicone Diaphragm - Internal Mount

Explosion Proof, External Mount

The design of the BM65 Series permits mounting of the entire unit outside the bin, making the operating mechanism easily accessible.

- **BM65-F**
Standard Neoprene Diaphragm - External Mount
- **BM65-FH**
Heavy Duty 1/16" Neoprene Diaphragm - External Mount
- **BM65-FHT**
Heavy Duty Silicone Diaphragm - External Mount

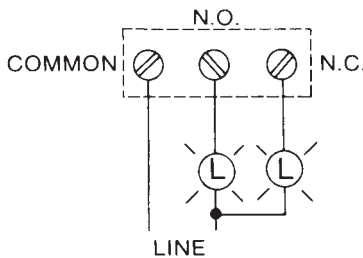


BM65-F

SPECIFICATIONS: Housing: Heavy cast aluminum
Diaphragm: Neoprene (standard), Silicone
Switch: Snap-action, 15 amp, 125 or 250 VAC

Mounting Plate: 16 ga. galvanized steel
Dimensions: 6 1/2" wide, 6 5/8" high, 2 5/8" deep
Shipping Weight: 3 lbs.

Basic wiring diagrams for BM45 and BM65 series



Remove cover and wire directly to the switch terminals. Where there is no material present, the common and normally closed (N.C.) terminals make contact. When material is present the common and normally open (N.O.) terminals make contact. Indicating devices can therefore be wired to show the presence or absence of materials as follows: **A.** If you want a signal light to go on when material is present, wire one power lead to the common switch terminal and one lead of the signal light to the normally open switch terminal. Connect the other power lead directly to the other signal light lead. **B.** If you want the light to go off when material reaches the desired level, the signal light lead to the switch should be connected to the normally closed switch terminal.

IMPORTANT: Consult wiring diagram supplied with each unit before installation.

