

Point Level Control for Free Flowing Material

BinMaster's diaphragm switch is designed for use with free-flowing, dry granular or pelleted material being stored in bins, silos or hoppers. Mounted inside or outside of the bin, the diaphragm switch – also called a pressure switch – can be used for detecting high, intermediate or low levels of material. The device is connected to a light, horn or point level alarm panel and activates an alert when material comes into contact with, or falls away from, the diaphragm switch.



For Non-Hazardous and Explosion Proof Applications

Made with pride in BinMaster's 75,000 square foot plant in Lincoln, Nebraska, USA this diaphragm switch features simple, rugged construction at a very affordable cost. Internal or external mounting options are available, with the external mounting option requiring a hole be cut in the bin wall. There are also several options for the diaphragm cover including standard and heavy

duty neoprene, neoprene with nylon mesh or heavy duty silicone. The BM45 model is designed for non-hazardous installations, while the BM65 is appropriate for explosion proof applications.

Simple, Reliable Operation

The diaphragm switch features a simple operating mechanism making it highly reliable and requiring minimal maintenance. It operates by sensing material pressing against a switch as the bin fills. When material comes into contact with the pressure switch, it activates a sensitive microswitch which can be wired to a visual alarm, such as a light or an audible alarm, such as a horn. It can also be wired to stop or start a process when materials reach a desired level.



Diaphragm Switch

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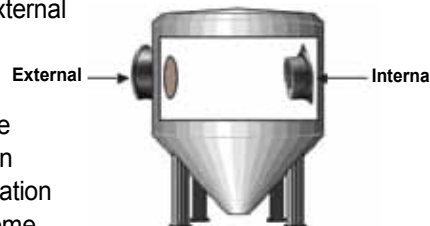
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Diaphragm Pressure Sensitive Level Indicators

The BM45 series is a general purpose, economical indicator designed for non-hazardous applications. 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 for Class II, Groups E, F and G. Both models are available for either internal or external mounting. Internally mounted models are easy to install, while the externally mounted permits mounting of the entire unit outside the bin, making the operation mechanism easily accessible.



BM45 and BM65 models using the heavy duty neoprene, neoprene with nylon mesh and silicone diaphragms have a thicker .031" diaphragm and a snap-action switch which is less sensitive than the standard switch. These units are intended for use with heavier materials and low level installation within the bin. The silicone diaphragm is designed to remain more resilient and sensitive in extreme temperature conditions.

	Model	Mounting	Diaphragm Material	Temperature	Bulk Density	Location
	BM45-R	Internal	Neoprene, Black, .016" Thick	-30 to 220° F	10 to 40 lb./cu. ft.	Non-Hazardous
	BM45-RH	Internal	Neoprene, Black, .031" Thick	-30 to 220° F	15 to 60 lb./cu. ft.	Non-Hazardous
	BM45-RHT	Internal	Silicone, Grey, .031" Thick	-40 to 350° F	15 to 40 lb./cu. ft.	Non-Hazardous
	BM45-F	External	Neoprene, Black, .016" Thick	-30 to 220° F	10 to 40 lb./cu. ft.	Non-Hazardous
	BM45-FH	External	Neoprene, Black, .031" Thick	-30 to 220° F	15 to 60 lb./cu. ft.	Non-Hazardous
	BM45-FHT	External	Silicone, Grey, .031" Thick	-40 to 350° F	15 to 40 lb./cu. ft.	Non-Hazardous
	BM65-R	Internal	Neoprene, Black, .016" Thick	-30 to 220° F	15 to 60 lb./cu. ft.	Hazardous
	BM65-RH	Internal	Neoprene with Nylon Mesh, Black, .020" Thick	-30 to 275° F	15 to 90 lb./cu. ft.	Hazardous
	BM-65-RHT	Internal	Silicone, Grey, .031" Thick	-40 to 350° F	15 to 60 lb./cu. ft.	Hazardous
	BM65-F	External	Neoprene, Black, .016" Thick	-30 to 220° F	15 to 60 lb./cu. ft.	Hazardous
	BM65-FH	External	Neoprene with Nylon Mesh, Black, .020" Thick	-30 to 275° F	15 to 90 lb./cu. ft.	Hazardous
	BM65-FHT	External	Silicone, Grey, .031" Thick	-40 to 350° F	15 to 60 lb./cu. ft.	Hazardous

- **Neoprene** — is a type of synthetic rubber. Neoprene has a variety of properties that make it quite useful, including being abrasion-resistant, chemical-resistant, waterproof, stretchable and buoyant.
- **Silicone Rubber** — offers the best long term resistance to environmental extremes. The chemical, electrical, and mechanical properties of silicones remain virtually unchanged at temperatures from -160° to 500° F.
- **Neoprene with Nylon Mesh** — has outstanding resistance to most chemicals, heat, and oils. Further, it is flame resistant, offers excellent color stability, weather resilience and extremely high abrasion resistance. Low moisture absorption and good dielectric qualities are among its other features.

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Products Used In

Aggregates	Fly Ash	Rye
Alumina	Gravel	Salt
Dry Ash	Kaolin Clay	Sand, Dry
Bark, Ground	Lime, Hydrated	Sand, Silica
Barley, Ground	Limestone	Sawdust
Barley, Whole	Oats	Sesame Seed
Bentonite	Peanuts, in Shell	Soybeans, Cracked
Carbon Black	Peanuts, Shelled	Soybean Meal
Cement, Clinker	Polyethylene Powder	Soybean, Whole
Cement, Portland	Polyethylene Resin	Sugar Beets, Whole
Coal	Polyethylene Beads	Sunflower Seed
Foundry Sand	Potash	Wheat
Corn, Shelled	PVC Powder	Wood Chips
Diatomaceous Earth	PVC Resin	Wood, Dust
Flour	Rice	Wood, Pellets