Surface Mount Magnasphere



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Surface Mount Switch Set with Magnasphere Technology MS28A / MS29A / MS29P



- ♦ Higher level of security
 - ♦ Spherical magnetism
- Resistant to magnetic tamper and defeat
 - ♦ Hermetically sealed
 - ♦ Screw down flanges
 - ♦ Concealed terminals on MS28
- ♦ Built-in E.O.L. Resisters and Diodes upon request
 - ♦ Switches and magnets available separately
 - ♦ Colors: white, brown or gray
 - ♦ Private labeling upon request
 - **♦** Lifetime Warranty
 - ♦ Standard Gap 3/8"



MS29A



INSTALLATION APPLICATIONS

This series offers a standard gap of 1/2" and can be installed on a steel surface with a minimum gap penalty. The "P" style is a pre-wired switch with 2 feet of conductor cable. A broad range of mounting brackets are also available. (see spec sheet in accessory section of the GRI full line catalog.)

CONSTRUCTION

Magnaspere's® patented technology utilizes the principal of Spherical Magnetism. The heart of the switch is a magnetic sphere, or ball contact. This sphere is housed in a durable metal housing. Completing the switch is a seal that contains the contacting electrode, insulated from the magnetic perimeter by a time proven ceramic to metal bond.

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WARRANTY: Lifetime warranty against workmanship, material and factory defects.

GEORGE RISK INDUSTRIES, INC. G.R.I. PLAZA KIMBALL, NE 69145 WWW.GRISK.COM



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The case or seal provides the second contact point required to complete the electrical circuit.

The seal/electrode cap is welded to the housing in an inert atmosphere providing a hermetically sealed contact.

OPERATION

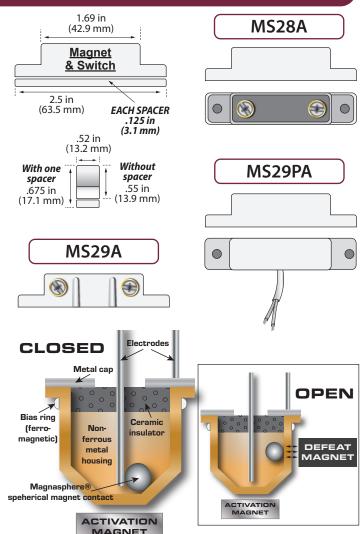
In the normally open position, the magnetic sphere is attracted to the ferromagnetic portion of the seal cap, away from the electrode. Because of this attraction the switch may be positioned in any orientation and will remain open.

When the actuator magnet approaches the switch from the end of the switch opposite the electrode, the magnetic ball is attracted to this field, and "snaps" to the bottom of the case, making contact with the electrode and case, closing the switch.

Unlike a reed switch that responds to a magnet within a global activation zone, the Magnasphere® switch responds to a magnet only within a restricted zone. A magnet outside the zone pulls the ball off center electrode to open the switch.

PRINCIPLES OF SPHERICAL MAGNETISM:

Finite element analysis shows magnetic flux paths of the Magnasphere® magnetic ball contact. The spherical shape is not polarity sensitive and will be attracted to either pole of the actuating magnet.



GRI PRODUCTS MEET OR EXCEED THESE MINIMUM GENERAL SPECIFICATIONS:

		Electrical	Reed	Max. Initial Contact	Max. Contact	Max. Switching	Max. Switching
Part Number	Loop Type	Configuration	Form	Resistance (Ω)	Rating (W)	Voltage (VDC)	Current (A)
MS28A	Closed	N/O	Α	.400	5	250 AC/DC	.180*
MS29A	Closed	N/O	Α	.400	5	250 AC/DC	.180*
MS29PA	Closed	N/O	Α	.400	5	250 AC/DC	.180*

^{*}Higher maximum switching current ratings available.

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