

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Solutions Seeking Problems.



N-Series



The original Magnasphere switch design. Robust all metal construction is highly resistant to magnetic tamper and defeat, and permanent contact welding from power surges. Can also be used as a close tolerance ferrous metal proximity sensor (no magnet actuator required).

CONTACT CHARACTERISTICS

Contact Form: A (Normally Open-N.O.) Contact Material: Gold/Gold Initial Contact Resistance (Typical):

< 150 Milli Ohms

Contact Capacitance: < 1 pf Contact Ratings: 30 VDC @ 250 ma Contact Bounce* (Typical): < 10milliseconds*. Recommended trial de-bounce - 15 milliseconds (min.) closed contact condition for logic state changes - or 30 Hz low pass filter buffer Minimum Breakdown Voltage (Typical):

Insulation Resistance (Typical): > 5 Mega Ohms

OPERATION CHARACTERISTICS

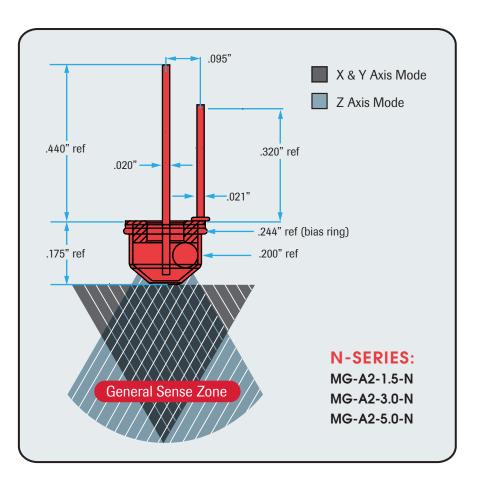
Operate/Release Values:

See Switching Characteristics Table **Actuation Magnet Orientation:**

Fither Pole

Shock (Switch Damage): > 100 G's Vibration: 10-15 G's (80-450 Hz)

Maximum Operating Frequency: 20 Hz Mounting Position: Any Plane Operating Temperature: -40°C to +150°C (Higher Values Available)



GENERAL CHARACTERISTICS & INFORMATION

Construction: Non-Ferrous Metal Housing, Compression Seal Hermetically Sealed, Protective Gas Atmosphere, Precious Metal Plated Spherical Magnet Contact.

Soldering Guidelines: 600° F (315° C) Temperature iron for 5 sec. (max.). Do not solder within 1/8" (3 mm) of glass seal. Lead pins precious metal plated for enhanced solderability.

Termination Polarity Guidelines: Polarity selection is non-critical, though some life gain may be realized by center pin as cathode on logic loads, but center pin as anode on larger loads.

Lead Wire Cutting / Bending Guidelines: Cut length has no effect on magnetic OP/REL values. Shearing action type cutters are recommended, but end nippers and side cutters are NOT recommended. Metal style seals are extraordinarily rugged, but the bending of unsupported lead wire pins adjacent to the glass seal is not recommended (i.e. when bending

use the support of some type of parallel jaws spaced away from the glass seal to grip the lead wire pins while bending the pins' free ends, so no bending strains are imposed on the glass seal.

Other Comments: Ferromagnetic materials and strong Electromagnetic devices proximate to the switch or its actuator magnet may adversely affect expected OP/REL switching values. Experimentation is recommended to investigate areas of concern.

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AIR GAP DISTANCE

MAX

1.115"

1.431"

.841"

1.276"

.818"

.826"

.071"

.119"

.046"

.085"

.041"

.060"



NEO 35 MAGNET TARGET 0.5" L x .375" T

ERROUS METAL TARGET EG. C1010 Low Carbon 1.0" L x 1.0" W x .0625" T

POSITION TYPICAL MIN The Most Advanced and Effective Magnetic Sensor (a) Leads Horz. "CLOSED" .521" .818" MG-A2-1.5-N (b) Leads Horz. "OPEN" 1.313" Consult factory regarding application/use of this part# .795" .652" .463" (a) Leads Horz. "CLOSED" MG-A2-3.0-N .897" (b) Leads Horz. "OPEN" .518" (a) Leads Horz. "CLOSED" .569" .320" MG-A2-5.0-N (b) Leads Horz. "OPEN" .643" .460" (a) Leads Horz. "CLOSED" .053" .035" MG-A2-1.5-N (b) Leads Horz. "OPEN" .089" .059" Consult factory regarding application/use of this part# (a) Leads Horz. "CLOSED" .034" .022" MG-A2-3.0-N (b) Leads Horz. "OPEN" .061" .037" (a) Leads Horz. "CLOSED" .030" .021" MG-A2-5.0-N (b) Leads Horz. "OPEN" .048" .036"

SWITCHING CHARACTERISTICS

N-Series

Switching characteristics the target moves closer (a), this normally open switch will CLOSE at the air gap distance (d), and OPEN when the target moves away (b).

ABOUT MAGNASPHERE

MAGNASPHERE® Corp. is a privately held company founded in 2002, with the purpose of providing superior performing magnetic switch and sensor technology to the industrial/commercial OEM and security markets. MAGNASPHERE's patented, award-winning technology establishes new standards for magnetic switch performance while providing an affordable and more effective alternative to other magnetic switch technologies.

Learn more: Visit us at www.MAGNASPHERE.com.



C Tables Standard for Industrial Control Equipment, UL 508

PATENTED DESIGN

MAGNASPHERE® products are covered by one or more of the following U.S. and international patents:

#5332992 #5530428 #5673021 #5977873 #6087936 #5880659 #6506987 #6603378 #6803845 #7023308 (Patents Pending)

INDUSTRY AWARDS

Best of Show Award: ISC Expo

Gold Award Sensor Technology: Sensors Expo

Best Intrusion Detection: ISC Expo

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