Solutions Seeking Problems.



L-Series



Offers remarkable ferrous metal proximity sensing (needs no magnet actuator) in such a compact, low cost two-wire switch. Can also be configured as a magnetically tamper resistant device. Robust all metal construction and design make it highly resistant to permanent contact welding due to power surges.

CONTACT CHARACTERISTICS

Contact Form: B (Normally Closed-N.C.) 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

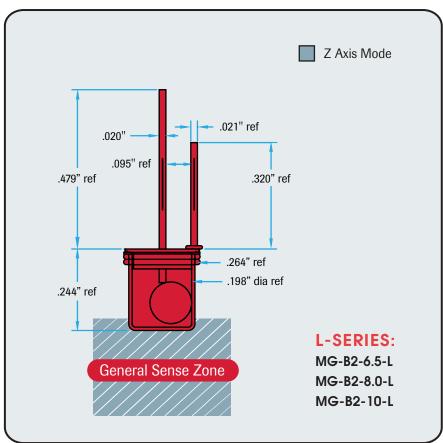
Operate/Release Values:

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

Fither Pole

(Higher Values Available)

Maximum Operating Frequency: 20 Hz Mounting Position: Any Plane Operating Temperature: -40°C to +85°C Shock (Switch Damage): > 100 G's Vibration: 10-15 G's (80-450 Hz)



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 wirepins 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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	SWITCHING CHARACTERISTICS			AIR GAP DISTANCE			
			POSITION	TYPICAL	MIN	MAX	
The Most Advanced and Effective Magnetic Sensor	MG-B2-6.5-L	a ← b d	(a) Leads Horz. "OPEN" (b) Leads Horz. "CLOSED"	1.000" 1.092"	.813" 1.825"	1.187" 1.359"	NEO 35 MAGNET TARGET 0.5" L x .375" T
	MG-B2-8.0-L	a b d	(a) Leads Horz. "OPEN" (b) Leads Horz. "CLOSED"	.921" .989"	.831" .918"	1.011" 1.050"	
	MG-B2-10-L	a b d	(a) Leads Horz. "OPEN" (b) Leads Horz. "CLOSED"	.843" .902"	.739" .826"	.947" .978"	
The Most Advanced and E	MG-B2-6.5-L	$\stackrel{a}{\rightarrow}$	(a) Leads Horz. "OPEN" (b) Leads Horz. "CLOSED"	.128" .152"	.103" .137"	.153" .167"	FERROUS METAL TARGET EG. C1010 Low Carbon 1.0" L x 1.0" W x .0625" T
	MG-B2-8.0-L	a b d	(a) Leads Horz. "OPEN" (b) Leads Horz. "CLOSED"	.116" .138"	.084" .107"	.148"	
	MG-B2-10-L	a b d d	(a) Leads Horz. "OPEN" (b) Leads Horz. "CLOSED"	.111" .131"	.083" .113"	.139" .149"	

L-Series

Switching characteristics the target moves closer (a), this normally closed switch will OPEN at the air gap distance (d), and CLOSE 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 Tus 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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