Solutions Seeking Problems.

MAGNASPHERE®

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 Form: B (Normaly 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): < 10 milliseconds*. 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): 300 VDC Insulation Resistance (Typical):

> 5 Mega Ohms

OPERATION CHARACTERISTICS

Operate/Release Values: See Switching Characteristics Table Actuation Magnet Orientation: Either Pole 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) (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 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.







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

L-Series

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.

CTUS 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
#5880659	#5977873	#6087936
#6506987	#6603378	#6803845
#7023308	(Patents Pendir	ng)

INDUSTRY AWARDS

Best of Show Award: **ISC** Expo

Gold Award Sensor Technology: Sensors Expo

Best Intrusion Detection: **ISC Expo**

MAGNASPHERE® NOTICE OF LIMITED LICENSE AND RIGHTS: (Security Applications) The purchase of MAGNASPHERE® switches provides the purchaser and the purchaser's customers with a limited right and license to make, use, offer for sale, and sell security devices, each making use of a single MAGNASPHERE® switch; however, this limited right and license does not extend to and specifically excludes security devices making use of two or more MAGNASPHERE® switches that cooperatively monitor a single area or location.

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