

Solutions Seeking Problems.



TW-Series



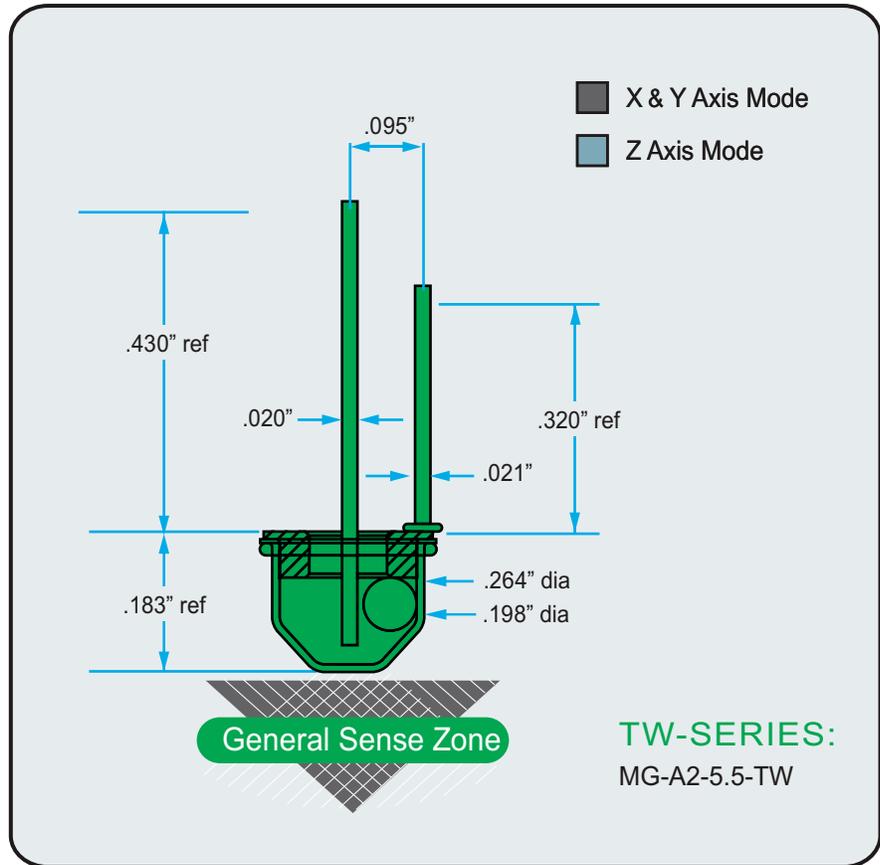
This series is used in the security industry for door and window sensors in Closed loop alarm systems. It has a wider actuation zone in the X or Y axis than other Form A Magnasphere switches. Robust all metal construction is highly resistant to magnetic tamper and defeat, and permanent contact welding from power surges.

CONTACT CHARACTERISTICS

Contact Form: A (Normally Open-N.O.)
 Contact Material: Gold/Gold
 Initial Contact Resistance (Typical): < 150 Milli Ohms
 Contact Capacitance: < 1pf
 Contact Ratings: 30 VDC @ 250ma
 Contact Bounce* (Typical): < 10 milliseconds*. Recommended 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 +150°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.

Leadwire 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.

TW-SERIES:
MG-A2-5.5-TW



The Most Advanced and effective Magnetic Sensor

SWITCHING CHARACTERISTICS		AIR GAP DISTANCE		
		POSITION	TYPICAL	MIN
MG -A2 -5.5-TW 	(a) Leads Horz. "CLOSED"	.577"	.462"	.692"
	(b) Leads Horz. "OPEN"	.713"	.610"	.817"
MG -A2 -5.5-TW 	(a) Leads Horz. "CLOSED"	NOT RECOMMENDED		
	(b) Leads Horz. "OPEN"			

NEO 35 MAGNET TARGET

FERROUS METAL TARGET

TW-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.

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 Pending)	

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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.

INDUSTRY AWARDS

Best of Show Award:
ISC Expo
Gold Award
Sensor Technology:
Sensors Expo
Best Intrusion
Detection:
ISC Expo