Features/Benefits

- Long life—10M operations
- Sealed contacts
- Quality construction
- Quick and easy installation

Typical Applications

- Automotive sensors and indicators
- Industrial sensors
- Factory automation equipment

Specifications

CONTACT RATINGS: 3.0 W max. @ 30 V DC or 30 V AC max. @ 0.3 AMP max.; 1.0 msec. max. operate time (including bounce); 1.0 AMP max. carry current.

CONTACT RESISTANCE: 100 m Ω max. initial.

DIELECTRIC STRENGTH: 200 V DC min.

ELECTRICAL CIRCUIT: SPST NO (Contact Form A). Reed switch opens when magnet is removed from proximity. Contacts are held closed when magnet is within actuation range.

OPERATING TEMPERATURE: -40°F to 212°F (-40°C to 100°C).

OPERATING DISTANCE/ALIGNMENT: Operate (pull-in or make) points are nominal values with ± 10% tolerance. Release points are 110% to 150% of the operating points.

MECHANICAL & ELECTRICAL LIFE: 10 million operations.

PACKAGING: Bulk packaging, 10 switch and magnet pairs per package.

Materials

HOUSING/SPACER/COVER: ABS plastic (UL94V-0), white.

REED SWITCH: Rhodium coated reed contacts in hermetically sealed, nitrogen filled glass capsule. Closed when magnet is in close proximity. Used in closed loop circuits.

WIRE LEADS: UL 1061, 22 AWG wire: stranded, made of copper or aluminum; Length: 12 in. with ends stripped; Color: white.

POTTING (around wires): Epoxy.

MAGNETS: Alnico V (all models, except MPS80WG) and Ceramic Ferrite 8 (MPS80WG model only).

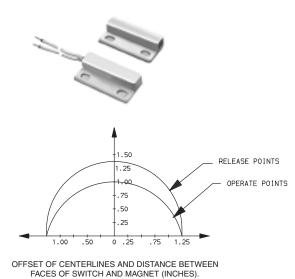
ADHESIVE MOUNTING: Foam-backed, pressure-sensitive adhesive with release liner (MPS45WGW model only).

NOTE: For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

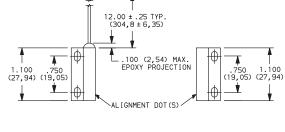
How To Order

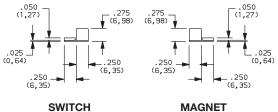
Complete part numbers for MPS Series Magnetic Proximity Sensors are shown on pages F-22 thru F-24.



ACTUATION CHART

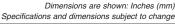
PART NUMBER	SWITCH TYPE
MPS45WGW	Subminiature surface mount (adhesive or flange), side exit leads, 1" make gap.
П	





Third Angle Projection

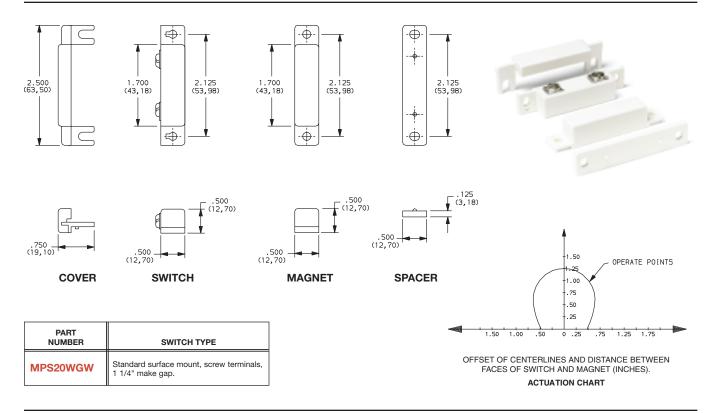


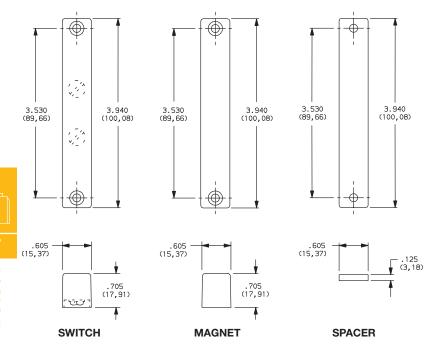


www.ittcannon.com



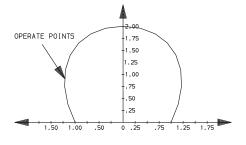
MPS Series Magnetic Proximity Sensors





PART SWITCH TYPE	
MPS80WGW	Industrial surface mount, concealed screw terminals, 2" make gap.



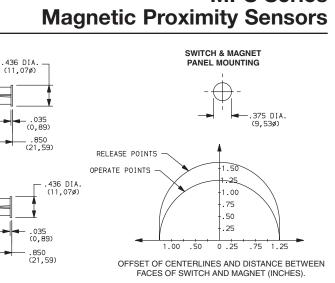


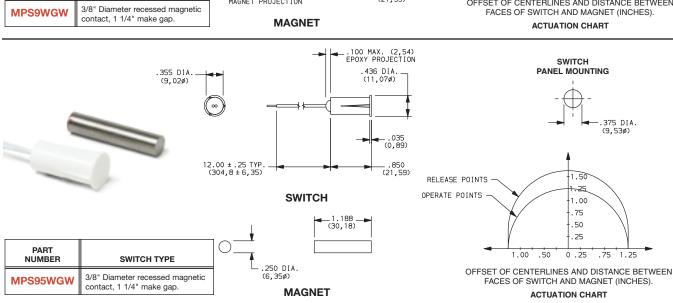
OFFSET OF CENTERLINES AND DISTANCE BETWEEN FACES OF SWITCH AND MAGNET (INCHES).

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.100 MAX. (2,54) EPOXY PROJECTION

.355 DIA.

0.050 MAX. (1,27)

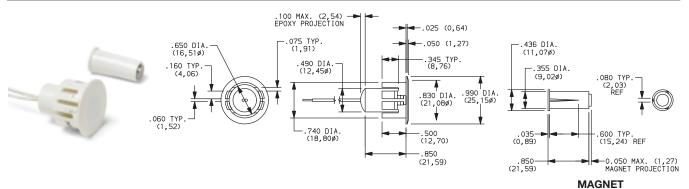
MAGNET PROJECTION

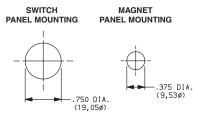
SWITCH

.355 DIA. (9.02ø)

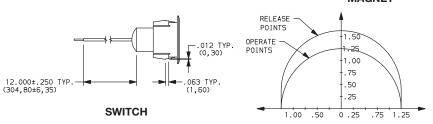
SWITCH TYPE

12.00 ± .25 TYP. (304,8 ± 6,35)





PART NUMBER	SWITCH TYPE
MPS73WGW	3/4" Diameter recessed magnetic contact, 1 1/4" make gap.



OFFSET OF CENTERLINES AND DISTANCE BETWEEN FACES OF SWITCH AND MAGNET (INCHES).

ACTUATION CHART

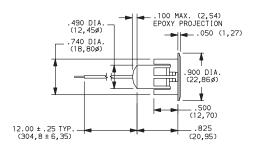


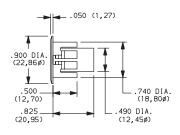
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

PART

NUMBER

MPS Series Magnetic Proximity Sensors







SWITCH

MAGNET



PELEASE POINTS 1.50 OPERATE POINTS 1.50 .75 .50 .25	
1.00 .50 0 .25 .75 1.2	5

PART NUMBER	SWITCH TYPE
MPS70WGW	3/4" Diameter recessed magnetic contact, 1 1/4" make gap.

OFFSET OF CENTERLINES AND DISTANCE BETWEEN FACES OF SWITCH AND MAGNET (INCHES). **ACTUATION CHART**

Actuating Positions

Gap Distance When installing recessed and surface mount contacts, magnet position

is very important. The switch and magnet must always be parallel or end to end, and never in a 'T' configuration.

Gap distance is a combination of the horizontal and vertical plane separation of the switch and magnet. Example: if a recessed magnet is 1/4" off the centerline of the switch, the make gap is reduced by 1/4"

Correct Configuration



Incorrect Configuration

Center Alignment

1 1/4" Make Gap

Off Center Alignment

