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 \pm 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).

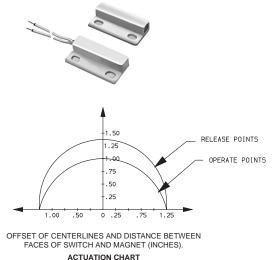
ADHESIVE MOUNTING: Foam-backed, pressure-sensitive adhesive with release liner (MPS45WGW model only).

NOTE: Wide gap contacts are polarity sensitive. Use alignment dots for proper installation of surface mount contacts

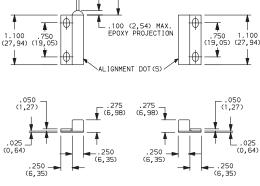
How To Order

Complete part numbers for MPS Series Magnetic Proximity Sensors are shown on pages E-16 thru E-19.





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



12.00 ± .25 TYP. (304,8 ± 6,35)



MAGNET

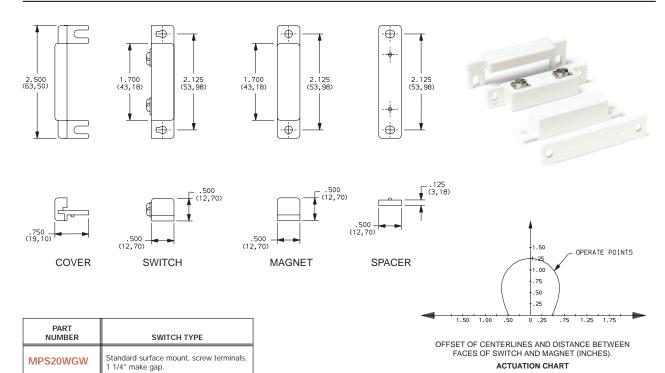
Third Angle Projection

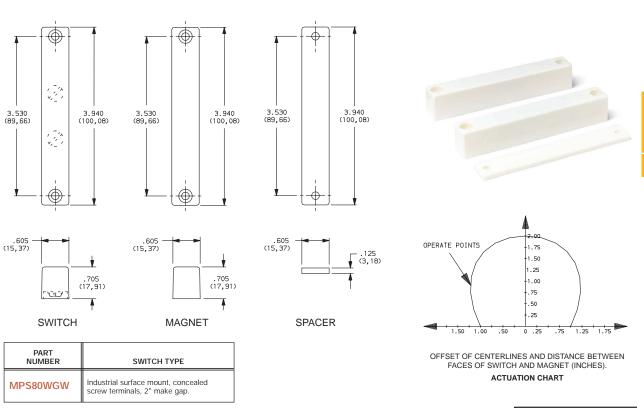
Dimensions are shown: IN (mm)
Dimensions subject to change



Cannon

SWITCH



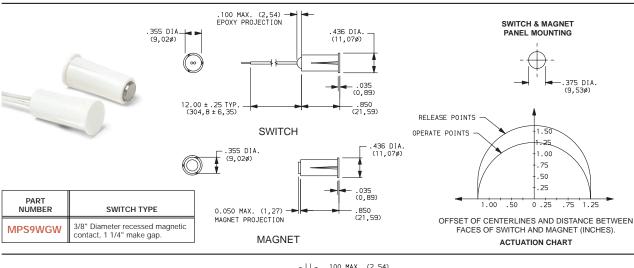


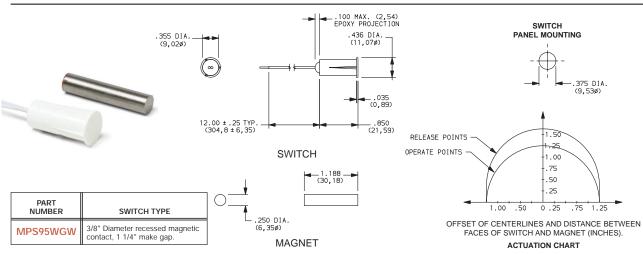


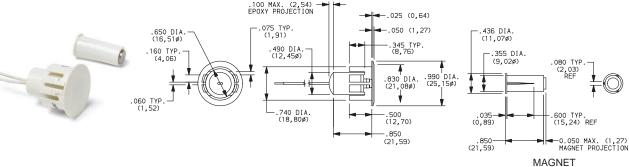
Cannon

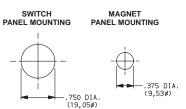
Dimensions are shown: IN (mm) Dimensions subject to change

Third Angle Projection



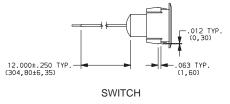


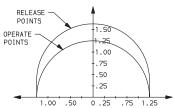




Detect

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: IN (mm) Dimensions subject to change



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