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.

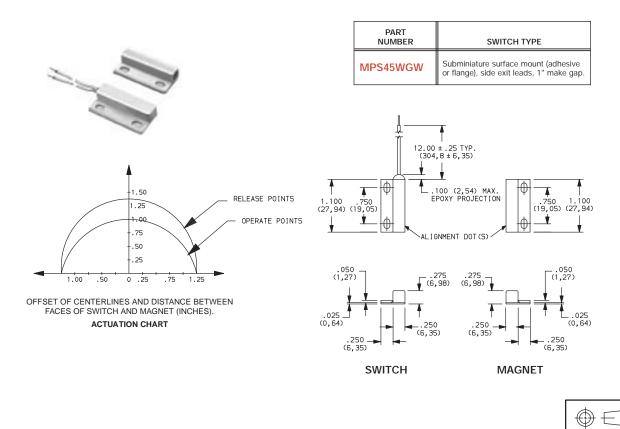
POTTING (around wires): Epoxy.

- 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: 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

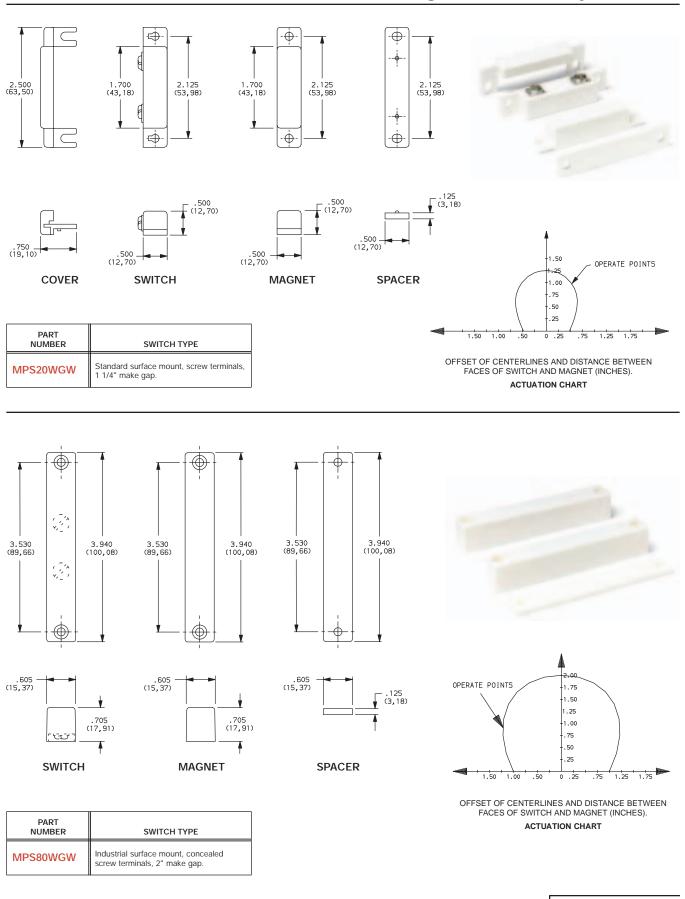
Complete part numbers for MPS Series Magnetic Proximity Sensors are shown on pages F-23 thru F-25.





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

Third Angle Projection





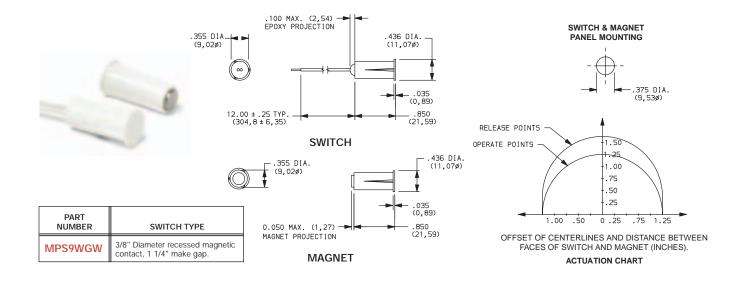
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ck-components.com

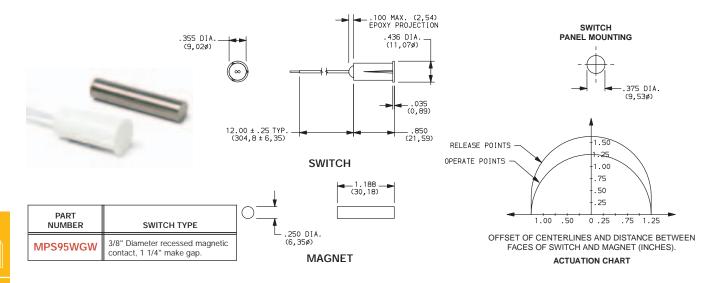
W

Third Angle

Projection

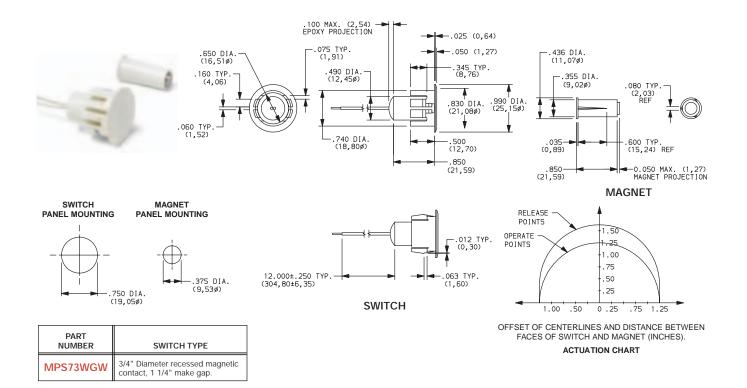
Detect

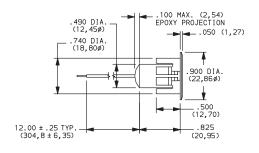






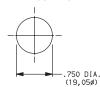
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



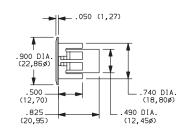


SWITCH

SWITCH & MAGNET PANEL MOUNTING

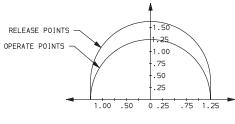


PART NUMBER	SWITCH TYPE
MPS70WGW	3/4" Diameter recessed magnetic contact, 1 1/4" make gap.

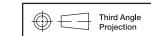


MAGNET





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



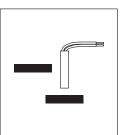
Actuating Positions

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

Correct Configuration



Incorrect Configuration



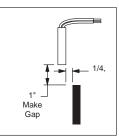
Gap Distance

When installing recessed and surface mount contacts, magnet position 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"

Center Alignment

Off Center Alignment







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