### 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  $\Omega$  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.

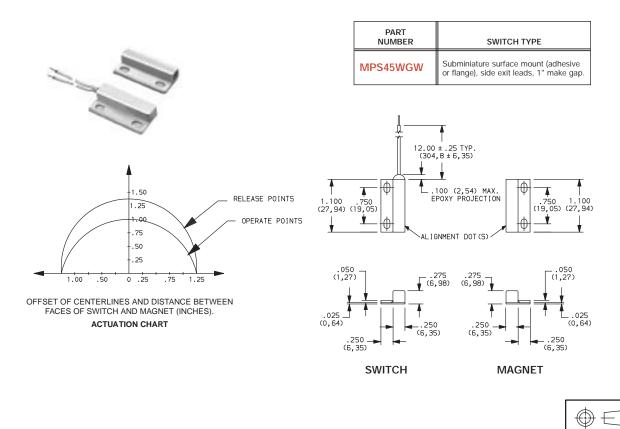
POTTING (around wires): Epoxy.

- 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

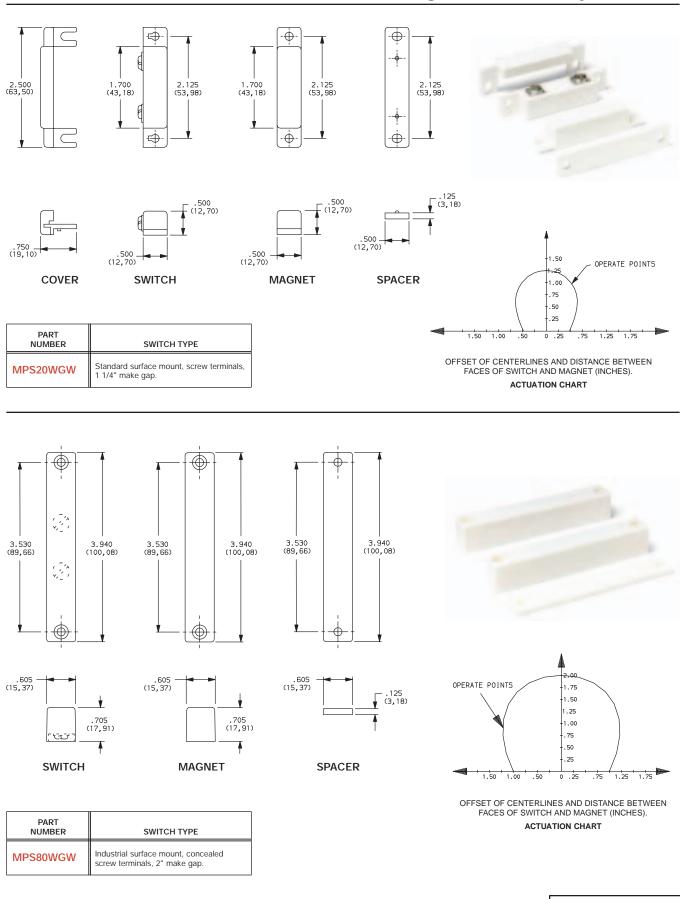
Complete part numbers for MPS Series Magnetic Proximity Sensors are shown on pages F-23 thru F-25.





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

Third Angle Projection





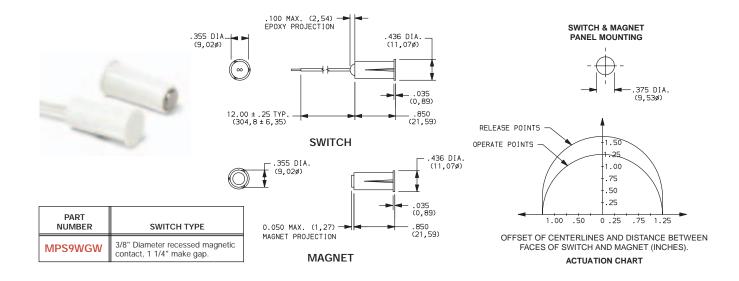
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ck-components.com

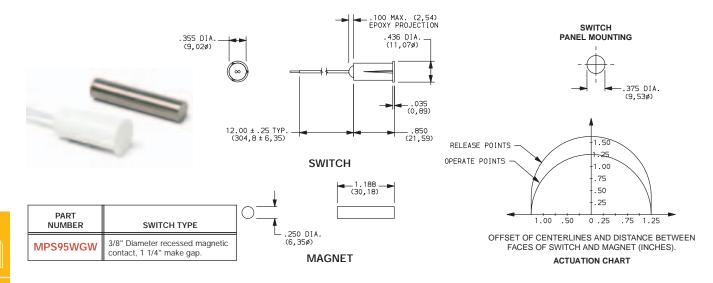
W

Third Angle

Projection

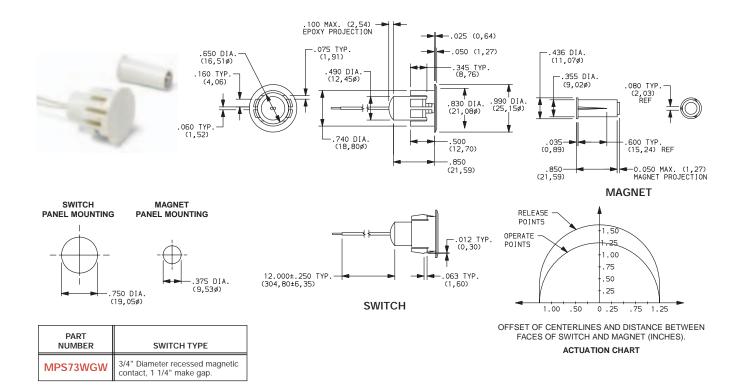
Detect

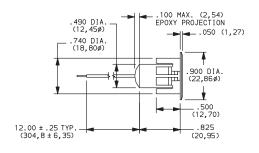






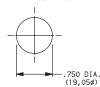
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



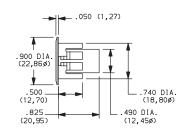


SWITCH

SWITCH & MAGNET PANEL MOUNTING

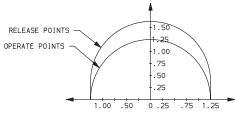


PART NUMBER	SWITCH TYPE
MPS70WGW	3/4" Diameter recessed magnetic contact, 1 1/4" make gap.



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



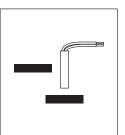
### **Actuating Positions**

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