Mini Size Precision Snap-acting Switches



Features/Benefits

- Low level and power switching
- Long electrical and mechanical life
- Increased overtravel
- Reliable snap-acting mechanism

Typical Applications

- Limited space constraints
- Communication devices

Specifications

CONTACT RATING: From low level* to 7 AMPS @ 250 V AC. ELECTRICAL LIFE: 100,000 cycles at full rated load. INSULATION RESISTANCE: 1,000 ohm min.

DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level. OPERATING TEMPERATURE: -67 F to 275 F (-55 C to 135 C). OPERATING FORCE: 5 oz. (142 grams) max. at actuator button. MOUNTING: 2-56 screws, torque 2 in/lbs max.

*Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

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

Materials

SWITCH HOUSING: Heat resistant phenolic (UL 94V-0). ACTUATOR BUTTON: Heat resistant phenolic (UL 94V-0).

SPRING: Beryllium copper CDA alloy C17200.

PIVOT: Brass CDA alloy 260.

MOVABLE CONTACTS: Fine silver for ratings greater than 1 AMP @ 125 V AC. 24K gold for 1 AMP @ 125 V AC or less.

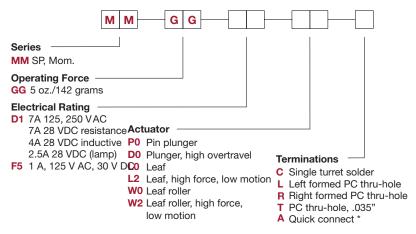
STATIONARY CONTACTS: Fine silver inlay on copper CDA alloy C10200 for ratings greater than 1 AMP @ 125 V AC. 24K gold on copper CDA alloy C10200 for 1 AMP @ 125 V AC or less.

TERMINALS: Copper CDA alloy C18700.



Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.



^{*} Only available in Electrical Rating D1 and Actuator P0

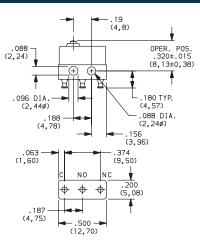


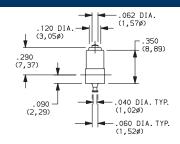


MM Series Mini Size Precision Snap-acting Switches

SWITCH WITH STANDARD OPTIONS







| PART NUMBER | BASIC OPERATING FORCE (OZ./GRAMS) | ELECTRICAL RATING |
|-------------|--------------------------------------------|----------------------|
| MMGGD1P0C | 5 142 | 7 AMPS @ 250 V AC. |

| SERIES | OPERATING FORCE |
|-------------------|-------------------------------------------------------------------------------------------------|
| MM SPDT MOMENTARY | OPTION BASIC SWITCH CODE OPERATING FORCE |
| | GG 5 oz. (142 grams) maximum for basic switch with pin plunger actuator (*P0' actuator option). |
| | NOTE: Operating force varies with actuator option, see ACTUATOR option section. |

ELECTRICAL RATING

| | | CONTACT MATERIAL | | | |
|------------|--------------------|---------------------|-----------------|------------------------------------|----------------------------------------------------------------------------------|
| OPTION | RoHS COMPLIANT* | RoHS COMPATIBLE* | MOVABLE CONTACT | STATIONARY CONTACT | ELECTRICAL RATING |
| D1 | Yes | Yes | Fine silver. | Fine silver inlay on copper alloy. | 7A 125, 250 VAC; 7A 28 VDC resistance 4A 28 VDC inductive; 2.5A 28 VDC (lamp) |
| F 5 | Yes | Yes | 24K Gold. | 24K Gold on copper alloy. | From low level* to 1 AMP @ 125 V AC, 30 V DC. |

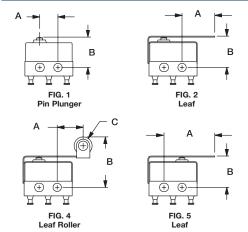
Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

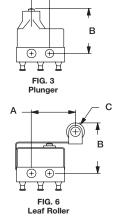
All models caus with all options.

- Consult Customer Service Center for availability and delivery of nonstandard ratings.
- * Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

ACTUATOR

Α





| OPTION CODE | FIG. | DIM. A | DIM. B | DIM. C |
|-------------|------|----------------------------------|--------------------------------------|----------------------|
| P0 | 1 | .19 (4,8) | .320 ± .015 (8,13 ± 0,38) | _ |
| D0 | 3 | 3 .19 .475 ± .031 (12,07 ± 0,79) | | _ |
| LO | 2 | .34 (8,6) | .330 ± .015 (8,38 ± 0,38) | _ |
| L2 | 5 | .53 (13,5) | $.330 \pm .015$ (8,38 \pm 0,38) | _ |
| Wo | 4 | .27 (6,9) | .532 ± .025 (13,51 ± 0,64) | .188 dia. (4,78Ø) |
| W2 | 6 | .46 (11,7) | .532 ± .025 (13,51 ± 0,64) | .188 dia. (4,78Ø) |



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



SWITCH CHARACTERISTICS

ACTUATOR

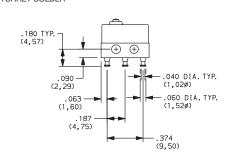
| OPTION CODE | MAXIMUM OPERATING FORCE (OZ./GRAMS) | MINIMUM RELEASE FORCE (OZ./GRAMS) | MAXIMUM DIFFERENTIAL TRAVEL | MAXIMUM PRETRAVEL | MINIMUM OVERTRAVEL |
|----------------|----------------------------------------|--------------------------------------|-----------------------------------|----------------------|-----------------------|
| D0 | 5 | .7 | .004 | .030 | .040 |
| | 142 | 20 | (0,10) | (0,76) | (1,02) |
| L0 | 4 | .7 | .025 | .090 | .045 |
| | 115 | 20 | (0,64) | (2,29) | (1,14) |
| L2 | 6 | .7 | .012 | .075 | .015 |
| | 170 | 20 | (0,30) | (1,90) | (0,38) |
| P0 | 5 | 1 | .002 | .020 | .004 |
| | 142 | 28 | (0,05) | (0,51) | (0,10) |
| W0 | 4 | .7 | .025 | .090 | .045 |
| | 115 | 20 | (0,64) | (2,29) | (1,14) |
| W2 | 6 | .7 | .012 | .075 | .015 |
| | 170 | 20 | (0,30) | (1,90) | (0,38) |

NOTE: For basic switch operating forces, see page J-44

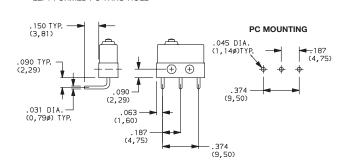
TERMINATIONS

Snap-acting

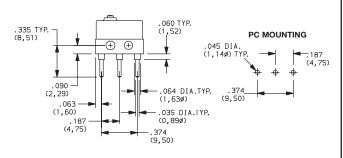
SINGLE TURRET SOLDER



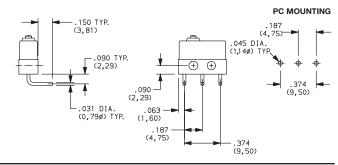
L LEFT FORMED PC THRU-HOLE



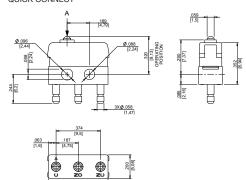
T PC THRU-HOLE, .035 "

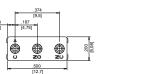


RIGHT FORMED PC THRU-HOLE



A QUICK CONNECT





Third Angle Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

MMGGF5L0L MMGGF5P0C MMGGD1D0T