MM Series Subminiature 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
- Miniaturized military devices
- 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.

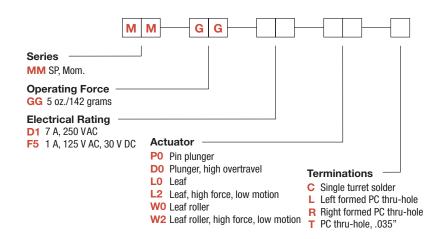
TERMINALS: Copper CDA alloy C18700.

Build-A-Switch

J

Snap-acting

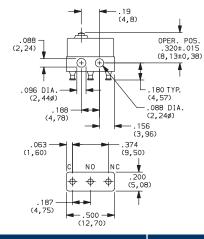
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-31 through J-32. For additional options not shown in catalog, consult Customer Service Center.

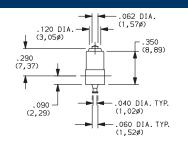




MM Series **Subminiature Precision Snap-acting Switches**

SWITCH WITH STANDARD OPTIONS





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

	0	PERATIN	
		OPTION CODE	BASIC SWITCH 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 CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	MOVABLE CONTACT	STATIONARY CONTACT	ELECTRICAL RATING
D1	Yes	Yes	Fine silver.	Fine silver inlay on copper alloy.	7 AMPS @ 250 V AC.
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.

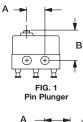
SERIES

All models **All WE** with all options.

Consult Customer Service Center for availability and delivery of nonstandard ratings.

W2

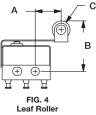
* Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

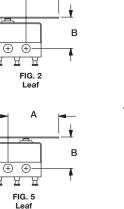


MMGGD1P0C

SPDT MOMENTARY

MM



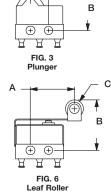


А

A

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ACTUATOR

Α

OPTION CODE FIG. DIM. A DIM. B DIM. C .19 .320 ± .015 **P0** _ 1 (4,8) $(8,13 \pm 0,38)$.19 .475 ± .031 D0 3 _ (4,8) $(12,07 \pm 0,79)$.34 $.330 \pm .015$ LO 2 _ (8,6) (8,38±0,38) .53 $.330\pm.015$ L2 5 _ (13,5) $(8,\!38\pm0,\!38)$.188 dia. .27 $.532 \pm .025$ 4 W0 (6,9) (13,51 ± 0,64) (4,78Ø)



 $.532 \pm .025$

 $(13,51 \pm 0,64)$

Dimensions are shown: Inches (mm)

.188 dia.

(4,78Ø)

Specifications and dimensions subject to change

æ	

.46

(11,7)

6

MM Series Subminiature Precision Snap-acting Switches

ACTUATOR ••••••

SWITCH CHARACTERISTICS

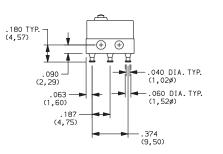
OPTION CODE	MAXIMUM OPERATING FORCE (OZ./GRAMS)	MINIMUM RELEASE FORCE (OZ./GRAMS)	MAXIMUM DIFFERENTIAL TRAVEL	MAXIMUM PRETRAVEL	MINIMUM OVERTRAVEL
D0	5	.7	.004	.030	.040
	142	20	(0,10)	(0,76)	(1,02)
LO	4	.7	.025	.090	.045
	115	20	(0,64)	(2,29)	(1,14)
L2	6	.7	.012	.075	.015
	170	20	(0,30)	(1,90)	(0,38)
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-31

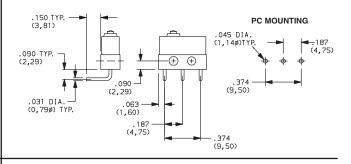
C SINGLE TURRET SOLDER

J

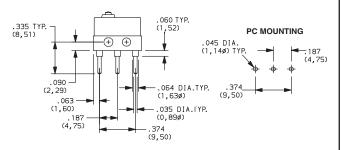
Snap-acting



L LEFT FORMED PC THRU-HOLE



PC THRU-HOLE, .035 "



R RIGHT FORMED PC THRU-HOLE

