

ZMA Series

Subminiature Snap-acting Switches



Features/Benefits

- **Reliable snap-acting mechanism**
- **Long electrical and mechanical life**
- **Compact size—Ideal when space is limited**
- **Various PCB terminals and actuators**
- **RoHS compatible & compliant**

Typical Applications

- **PCB detection switch**
- **Communication devices**
- **Testing equipment**
- **Security/Alarm systems**
- **Consumer electronics**



Specifications

CONTACT RATING: 3A @ 125 V AC / 0.1A @ 30 V DC.
ELECTRICAL LIFE: 300,000 cycles @ 0.1A / 10,000 cycles @ 3A.
INSULATION RESISTANCE: 100 M ohm min.
DIELECTRIC STRENGTH: 500 Vrms.
STORAGE TEMPERATURE: -40°C to 85°C for 00A rating; -30°C to 85°C for 03A rating
OPERATING FORCE: 80 or 150 grams.

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

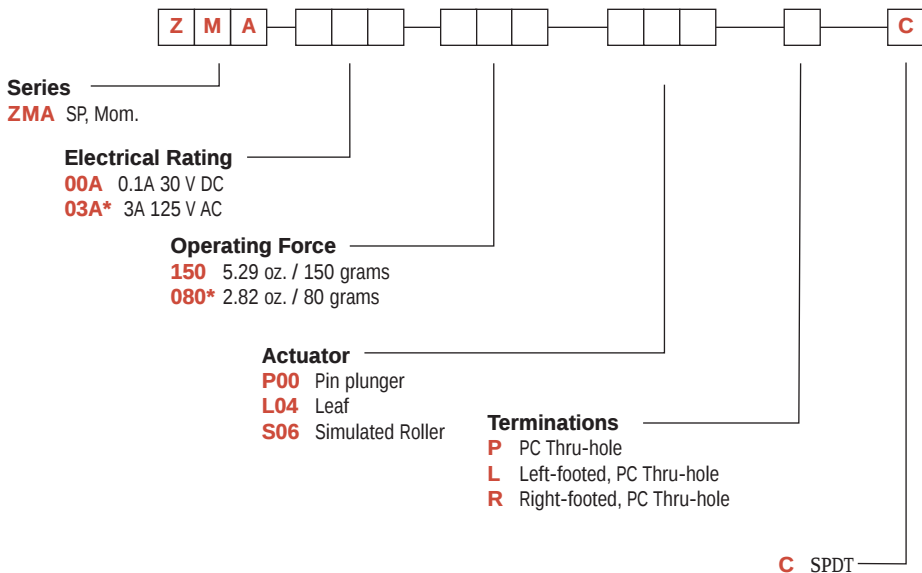
Materials

CASE/COVER: PBT
ACTUATOR: Nylon 6/6
MOVABLE CONTACTS: Silver or gold plated.
STATIONARY CONTACTS: Silver or gold plated.
TERMINALS: Brass, tin plated.

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

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages K-37 and K-38. For additional options not shown in catalog, consult Customer Service Center.



*Electrical rating 03A is not available with Operating Force rating of 080.

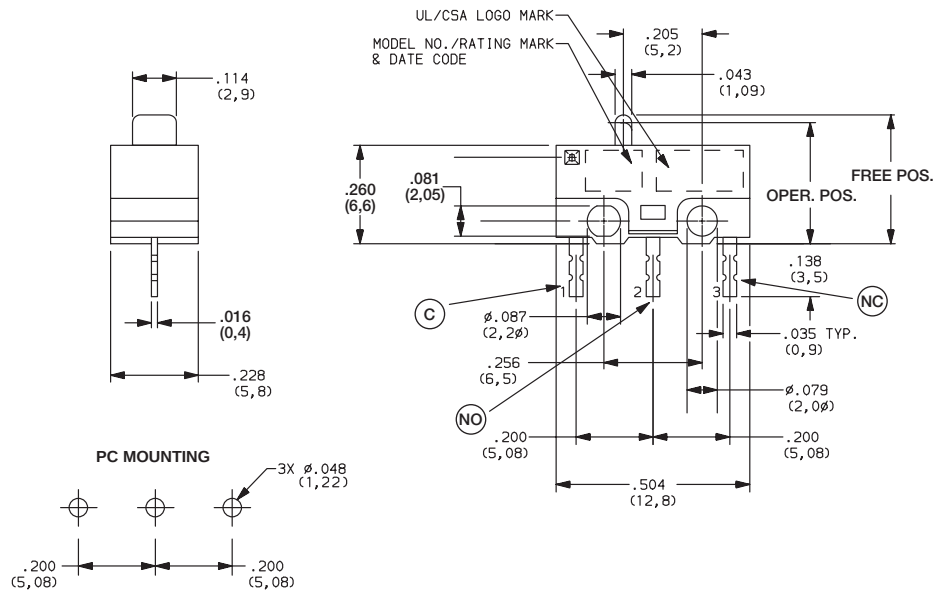


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

ZMA Series Subminiature Snap-acting Switches

SERIES **Z M** ■ ■ ■ ■ ■

ZMA SUBMINIATURE SNAP-ACTING SWITCHES – SP MOMENTARY



ZMA03A150L04PC
SPDT



Snap-acting

ELECTRICAL RATING ■ ■ ■ ■ ■

OPTION CODE	CONTACT MATERIAL		ELECTRICAL RATING
	MOVABLE CONTACT	STATIONARY CONTACT	
00A	Gold over fine silver	Gold over fine silver	0.1 AMP @ 30 V DC
03A*	Fine Silver	Fine silver	3 AMPS @ 125 V AC

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

All models with all options.

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

*Electrical rating 03A is not available with Operating Force rating of 080.

OPERATING FORCE ■ ■ ■ ■ ■

OPTION CODE	BASIC SWITCH OPERATING FORCE (OZ./GRAMS)
150	5.29 150
080*	2.82 80

*Electrical rating 03A is not available with Operating Force rating of 080.



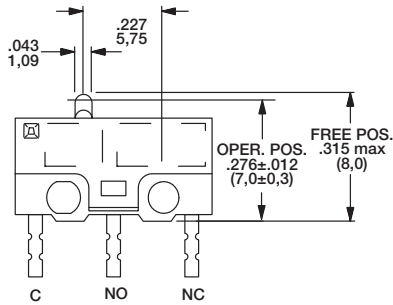
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ZMA Series

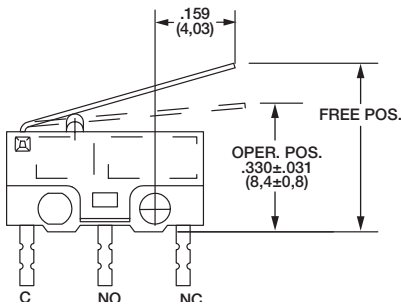
Subminiature Snap-acting Switches

ACTUATOR

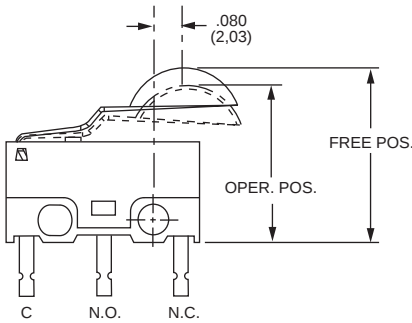
P00 PIN PLUNGER



L04 LEAF



S06 SIMULATOR ROLLER

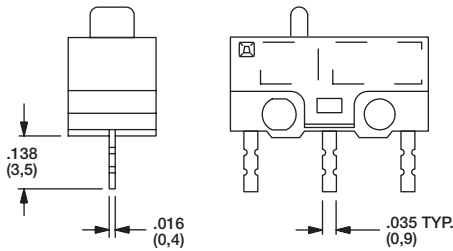


SWITCH CHARACTERISTICS

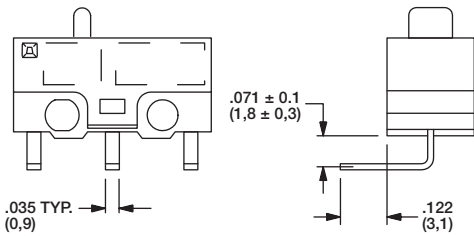
	Maximum Operate Force (oz. / grams)		Minimum Release Force (oz./grams)		Free Position Max	Maximum Pre-travel	Operate Position	Maximum Differential	Minimum Overtravel
Option Code	080	150	080	150	All	All	All	All	All
P00	2.82 80	5.29 150	0.35 10	0.71 20	0.289 (7,35)	0.024 (0,62)	0.217 +/- 0.015 (5,5 +/- 0,38)	0.005 (0,12)	0.008 (0,2)
L04	1.06 30	1.76 50	0.18 5	0.28 8	0.398 (10,1)	0.031 (3,0)	0.252 +/- 0.031 (6,4 +/- 0,8)	0.031 (0,8)	0.024 (0,6)
S05	2.05 50	5.10 144	0.20 5.66	0.38 1.077	0.450 max. (11,42)	0.031 3.0	0.406 +/- 0.031 (10,31 +/- 0,8)	0.031 (0,8)	0.024 0.6

TERMINATIONS

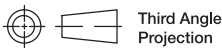
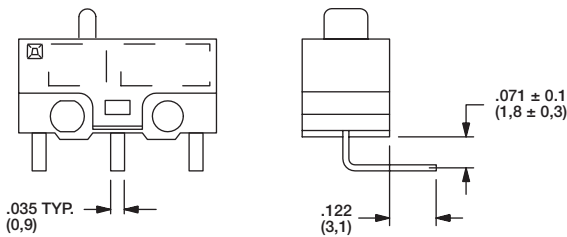
P PC THRU-HOLE



L LEFT FOOTED, PC THRU-HOLE



R RIGHT FOOTED, PC THRU-HOLE



Third Angle
Projection

Dimensions are shown: Inch (mm)
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