

ZMS Series Subminiature Snap-acting Switches (IP65)



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***
- ***IP67 with potted wires only***

Typical Applications

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

UL61058-1

UL1054



Specifications

CONTACT RATING: 3A@ 125 V AC/ 3A@ 12 V DC, 0.1A @ 12 V DC

ELECTRICAL LIFE: 300,000 cycles @ 0.1A 12V DC

100,000 cycles @ 3A 12 V DC

6,000 cycles @ 3A 125 V AC

MECHANICAL LIFE: 500,000 cycles

INSULATION RESISTANCE: 100 M ohm min.

DIELECTRIC STRENGTH: 500 Vrms.

OPERATING TEMPERATURE: see chart below.

OPERATING FORCE: 130 grams.

Materials

CASE: Nylon

COVER/ACTUATOR: PBT

MOVABLE CONTACTS: 3A silver, 10 mA gold

STATIONARY CONTACTS: 3A silver, 10 mA gold

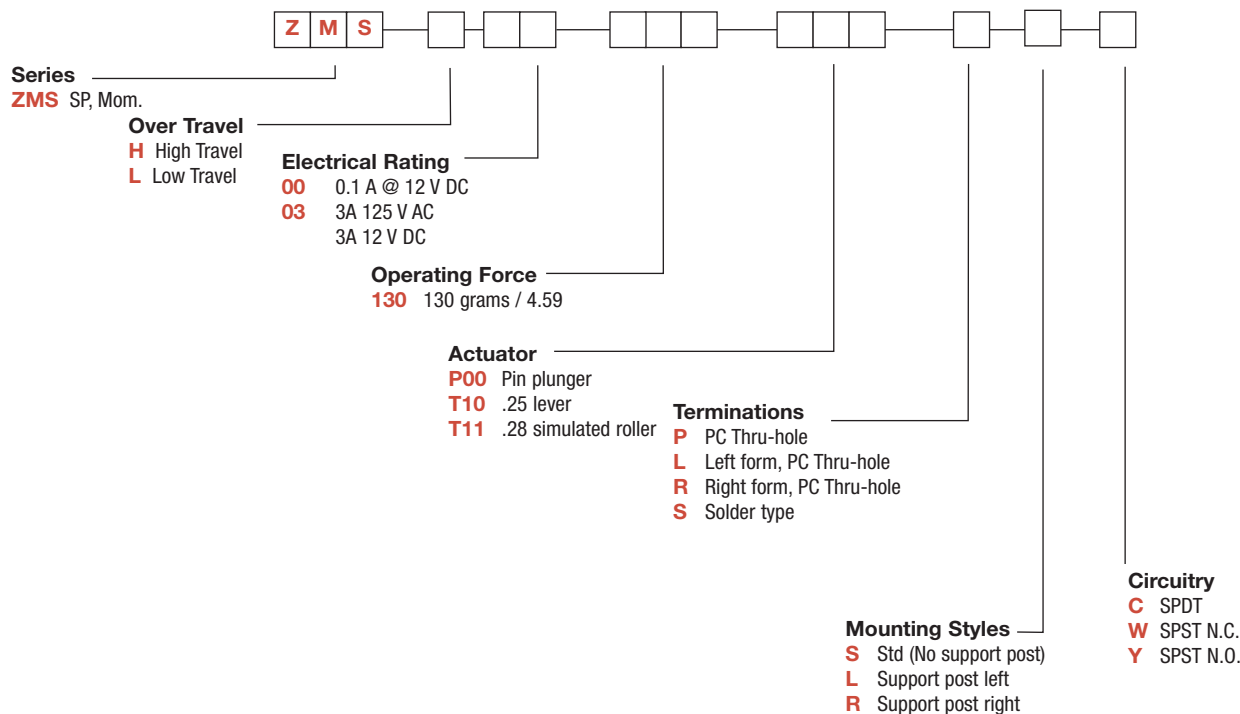
TERMINALS: Brass, tin plated

LEVER: Stainless steel

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 J-40 and J-42. For additional options not shown in catalog, consult Customer Service Center.



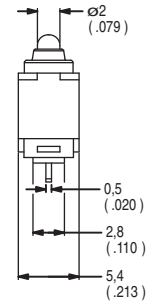
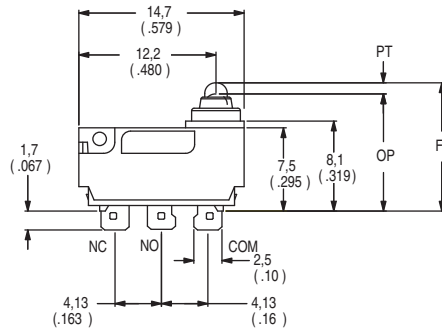
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SERIES **Z M S** ■ ■ ■ ■ ■ ■ ■ ■

ZMSH

HIGH OVER TRAVEL

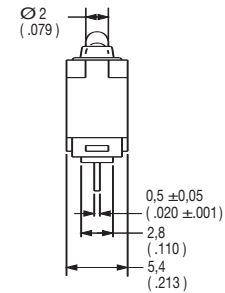
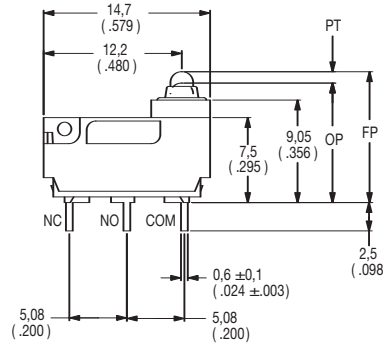
Switch option shown: ZMSH00P00SSC



ZMSL

LOW OVER TRAVEL

Switch option shown: ZMSL00P00PSC



ELECTRICAL RATING

OPTION CODE	CONTACT MATERIAL	UL61058-1 UL1054
	MOVABLE CONTACT / STATIONARY CONTACT	ELECTRICAL RATING
00	3 A silver, 10 mA gold	0.1 AMP @ 12 V DC
03	3 A silver, 10 mA gold	3 AMPS @ 125 V AC 3 AMPS @ 12 V DC

Model **c** **AL** **us** with option "S" (solder type) only.

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

OPERATING FORCE

OPTION CODE	BASIC SWITCH OPERATING FORCE (OZ./GRAMS)
130	130 4.59

Snap-acting



Third Angle
Projection

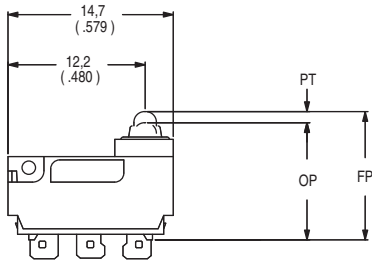
Dimensions are shown: mm (inch)
Specifications and dimensions subject to change

ZMS Series

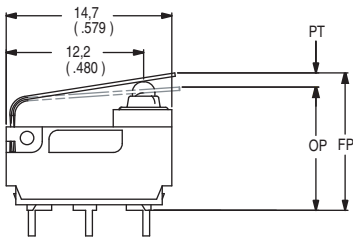
Subminiature Snap-acting Switches (IP65)

ACTUATOR

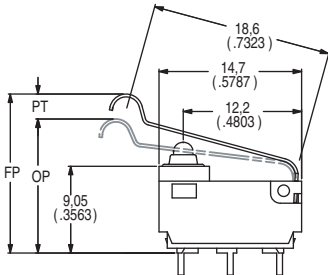
P00 PIN PLUNGER (IP65)



T10 .25 LEVER (IP65)



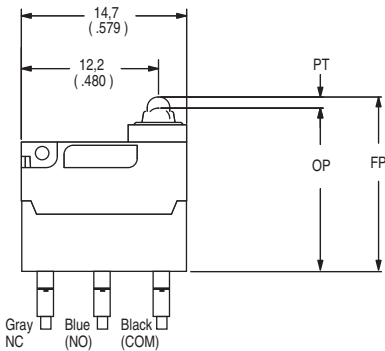
T11 LEVER (IP65)



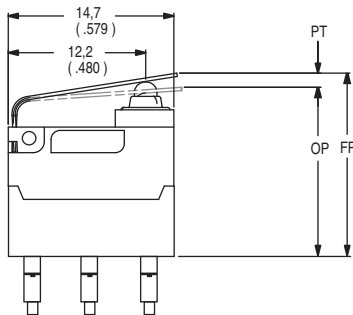
SWITCH CHARACTERISTICS

Actuator code	Maximum Operate Force (grams/oz.)	Minimum Release Force (grams/oz.)	Free Position Max	Maximum Pre-travel	Operate Position	Maximum Differential	Low Overtravel min. (L)	High Overtravel min. (H)
P00	130 4.59	13 0.45	.472 (12)	0.032 (0,8)	.415 ± .012 (10.55 ± .3)	.012 (0,3)	0.031 (0,8)	0.068 (1,72)
T10	195 6.88	55 1.93	.604 (15.35)	0.152 (3.85)	.440 ± .020 (11.2 ± .5)	0.020 (0,5)	0.053 (1,35)	0.084 (2,14)
T11	160 5.64	45 1.58	.726 (18.45)	0.186 (4.8)	.539 ± .032 (13.7 ± .8)	0.030 (0,7)	0.062 (1,65)	0.101 (2,57)

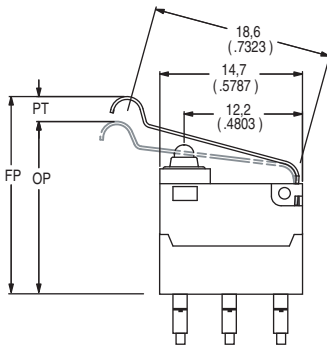
P00 PIN PLUNGER (IP67)



T10 .25 LEVER (IP67)

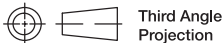


T11 .28 LEVER (IP67)



SWITCH CHARACTERISTICS "J" TERMINATION ONLY

Actuator code	Maximum Operate Force (grams/oz.)	Minimum Release Force (grams/oz.)	Free Position Max	Maximum Pre-travel	Operate Position	Maximum Differential	Low Overtravel min. (L)	High Overtravel min. (H)
P00	130 4.59	13 0.45	.650 (16.50)	0.032 (0,8)	.593 ± .020 (15.05 ± 0.5)	.012 (0,3)	0.031 (0,8)	0.068 (1,72)
T10	195 6.88	55 1.93	.781 (19.85)	0.152 (3.85)	.618 ± .028 (15.7 ± .7)	0.020 (0,5)	0.053 (1,35)	0.084 (2,14)
T11	160 5.64	45 1.58	.904 (22.95)	0.188 (4.8)	.717 ± .039 (18.2 ± 1.0)	0.030 (0,7)	0.062 (1,65)	0.101 (2,57)



Dimensions are shown: mm (inch)
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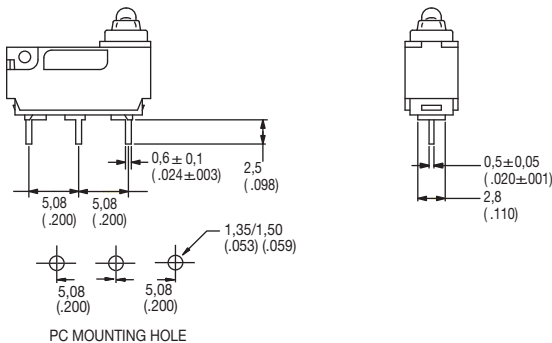


ZMS Series

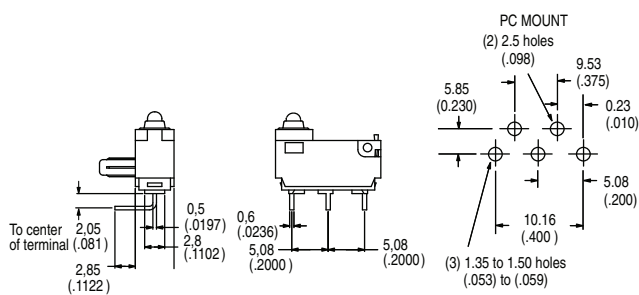
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TERMINATIONS

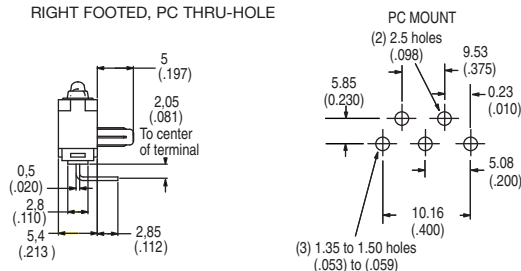
P PC THRU-HOLE



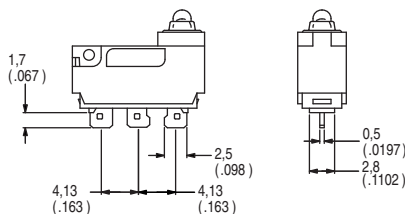
L LEFT FOOTED, PC THRU-HOLE



R RIGHT FOOTED, PC THRU-HOLE

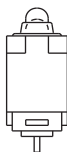


S SOLDER TYPE

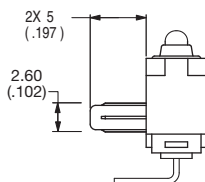


MOUNTING STYLES

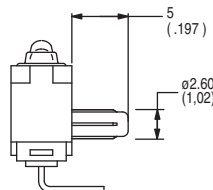
S STD (NO SUPPORT POST)



L SUPPORT POST LEFT



R SUPPORT POST RIGHT



CIRCUITRY

- C** SPDT (Single Pole, Double Throw)
- W** SPST, NC (Single Pole, Single Throw, Normally Closed)
- Y** SPST, NO (Single Pole, Single Throw, Normally Open)



Third Angle Projection

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

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Snap-acting