

Features/Benefits

- Reliable snap-acting mechanism
- Long electrical and mechanical life
- Various PCB terminals and actuators
- RoHS compatible
- IP67 with potted wires only

Typical Applications

- Communication devices
- Testing equipment
- Security/Alarm systems

UL61058-1 UL1054



Specifications

CONTACT RATING: 3A@ 125 V AC/ 3A@ 12 V DC, 0.01 A@ 12 V DC. ELECTRICAL LIFE: 100,000 cycles @ 0.01 A, 12 V DC / 100,000 cycles @ 3A, 12 V DC, 6,000 cycles @ 3A, 125 VAC

INSULATION RESISTANCE: 100 M ohm min. DIELECTRIC STRENGTH: 500 Vrms.

OPERATING TEMPERATURE: see chart below.

OPERATING FORCE: 130 grams.

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

Materials

CASE: Nylon

COVER/ACTUATOR: PBT MOVABLE CONTACTS: Silver* STATIONARY CONTACTS: Silver*

TERMINALS: Brass, Pre-plated with silver

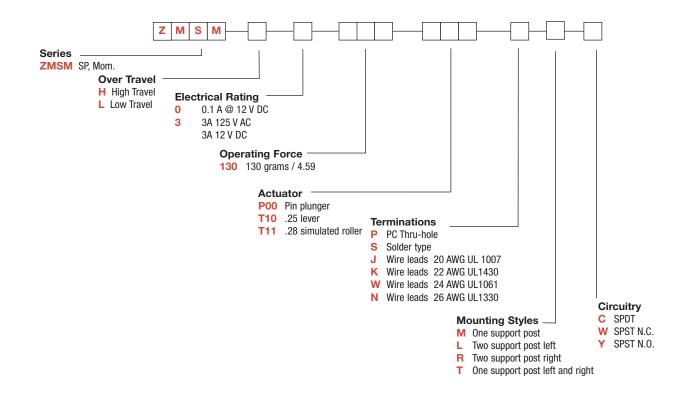
LEVER: Stainless steel

* Gold plated terminals available contact Customer Service.

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-65 and J-67. For additional options not shown in catalog, consult Customer Service Center.





Dimensions are shown: mm Specifications and dimensions subject to change

ZMSM Series with Mounting Hole Subminiature Snap-acting Switches (IP40)

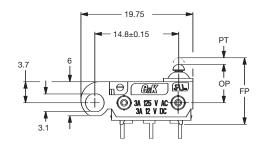
SERIES

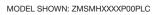
ZMSMH

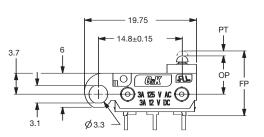
HIGH OVER TRAVEL



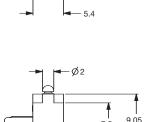
ZMSML LOW OVER TRAVEL

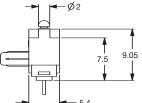






MODEL SHOWN: ZMSMLXXXXP00PLC





ELECTRICAL RATING

	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT		
OPTION			MOVABLE CONTACT	STATIONARY CONTACT	ELECTRICAL RATING
0	Yes	Yes	Fine silver	Fine silver	0.01 A @ 12 V DC
3	Yes	Yes	Fine Silver	Fine silver	3 AMPS @ 125 V AC 3 AMPS @ 12 V DC

Model **c** 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	<u>130</u> 4.59		



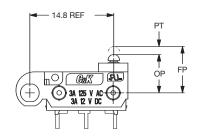
Dimensions are shown: mm Specifications and dimensions subject to change



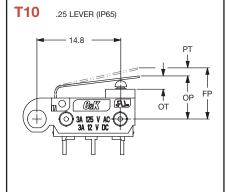
ACTUATOR

P00

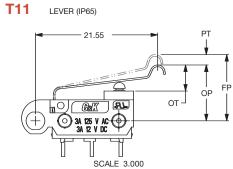
PIN PLUNGER (IP65)



MODEL SHOWN: ZMSMLXXXXP00PLC



MODEL SHOWN: ZMSMLXXXXT10PLC



MODEL SHOWN: ZMSMLXXXXT11PLC

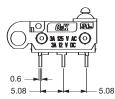
SWITCH CHARACTERISTICS

Actuator code	Maximum Operate Force (grams/oz.)	Minimum Release Force (grams/oz.)	Free Position Max (mm)	Maximum Pre-travel (mm)	Operate Position (mm) ±0.8	Maximum Differential (mm)	Low Overtravel min. (mm)	High Overtravel min. (mm)
P00	130 4.59	13 0.45	7.35	0.8	6.75 ± 0.2	0.3	0.8	1.75
T10	195 6.88	55 1.93	10.70	3.85	7.40 ± 0.5	0.5	1.35	2.3
T11	160 5.64	45 1.58	13.80	4.8	9.90 ± 0.8	0.7	1.65	2.6

TERMINATIONS

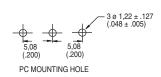
PC THRU-HOLE (IP65)

Snap-acting

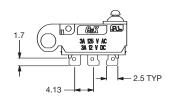


0.5±0.05 -

MODEL SHOWN: ZMSMHXXXXP00PLC



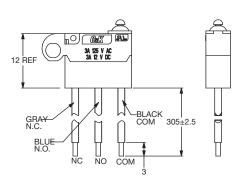
SOLDER TYPE (IP65)





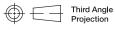
MODEL SHOWN: ZMSMHXXXXP00SMC

WIRE LEADS BOTTOM (IP67)



Standard Wire: 20 AWG UL 1007

Available options - must specify 22AWG UL1430 24AWG UL1061 26AWG UL1330

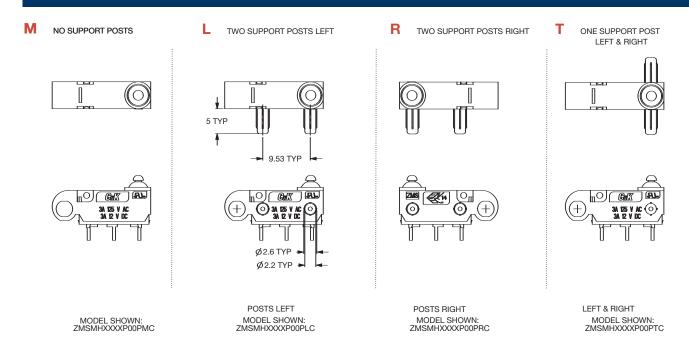


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ZMSM Series with Mounting Hole Subminiature Snap-acting Switches (IP65)

MOUNTING STYLES



CIRCUITRY

SPDT (Single Pole, Double Throw)

SPST, NC (Single Pole, Single Throw, Normally Closed)

SPST, NO (Single Pole, Single Throw, Normally Open)



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