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



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: 3 Amp silver, 0.01A gold STATIONARY CONTACTS: 3 Amp silver, 0.01A gold

TERMINALS: Brass, Pre-plated with silver

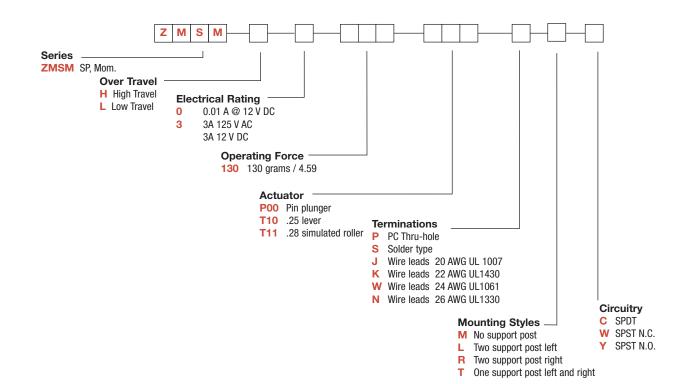
LEVER: Stainless steel



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-62 through J-64. For additional options not shown in catalog, consult Customer Service Center.





Dimensions are shown: mm Specifications and dimensions subject to change

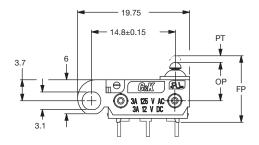
Snap-acting C

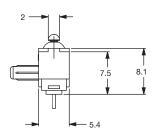
ZMSM Series with Mounting Hole Subminiature Snap-acting Switches (IP65)

SERIES

ZMSMH HIGH OVER TRAVEL

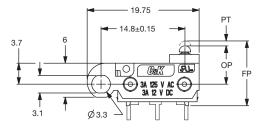


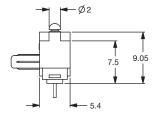




ZMSML LOW OVER TRAVEL

MODEL SHOWN: ZMSMHXXXXP00PLC





MODEL SHOWN: ZMSMLXXXXP00PLC

ELECTRICAL RATING

	D. HO	D. HO	CONTACT MATERIAL		
OPTION	RoHS COMPLIANT*	RoHS COMPATIBLE*	MOVABLE CONTACT STATIONARY CONTACT	ELECTRICAL RATING	
0	Yes	Yes	Gold alloy	0.01 A @ 12 V DC	
3	Yes	Yes	Silver alloy	3 AMPS @ 125 V AC 3 AMPS @ 12 V DC	

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



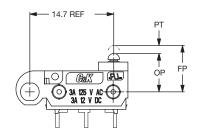
Dimensions are shown: mm Specifications and dimensions subject to change



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

ACTUATOR

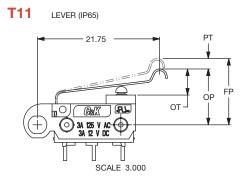
POO PIN PLUNGER (IP65)



MODEL SHOWN: ZMSMLXXXXP00PLC

710 .25 LEVER (IP65)

MODEL SHOWN: ZMSMLXXXXT10PLC



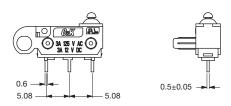
MODEL SHOWN: ZMSMLXXXXT11PLC

SWITCH CHARACTERISTICS

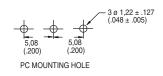
Actuator code	Maximum Operate Force (grams/oz.)	Minimum Release Force (grams/oz.)	Free Position Max (mm)	Maximum Pre-travel (mm)	Operate Position (mm)	Maximum Differential (mm)	Low Overtravel min. (mm)	High Overtravel min. (mm)
P00	130 4.59	13 0.45	7.35	0.8	6.75 ± 0.3	0.3	0.8	1.75
T10	195 6.88	55 1.93	10.70	3.85	7.40 ± 0.8	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

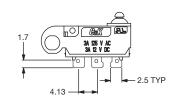
PC THRU-HOLE (IP65)



MODEL SHOWN: ZMSMHXXXXP00PLC



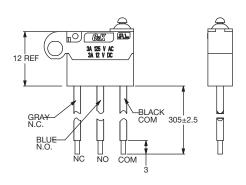
S SOLDER TYPE (IP65)





MODEL SHOWN: ZMSMHXXXXP00SMC

J WIRE LEADS BOTTOM (IP67)



Standard Wire: 20 AWG UL 1007

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

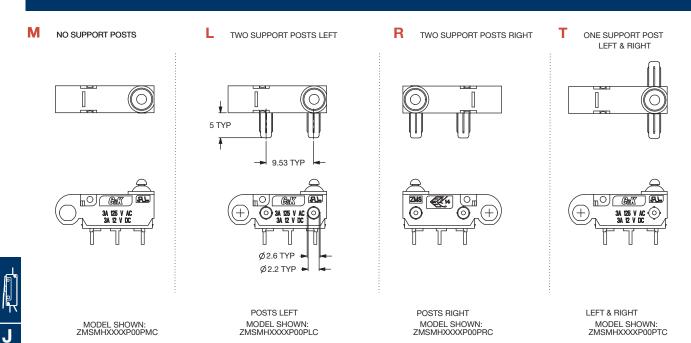


Dimensions are shown: mm Specifications and dimensions subject to change



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

MOUNTING STYLES



CIRCUITRY

SPDT (Single Pole, Double Throw)

Snap-acting

W

- SPST, NC (Single Pole, Single Throw, Normally Closed)
- SPST, NO (Single Pole, Single Throw, Normally Open)

Dimensions are shown: mm Specifications and dimensions subject to change



Mouser Electronics

Authorized Distributor

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

C&K Switches:

<u>ZMSML3130T11SMC</u> <u>ZMSMH3130T11SLC</u> <u>ZMSMH0130T10KRY</u> <u>ZMSMH3130P00JMY</u> <u>ZMSMH3130T10PLW</u> ZMSMH0130T10KRW