KSD-ZMSM Series with Mounting Hole Mini Size Snap-acting **Switches**



Features/Benefits

- Reliable snap-acting mechanism
- Long electrical and mechanical life
- Various PCB terminals & actuators
- RoHS compatible
- IP67 for standalone switch except the metal terminal part; Full IP67 protection when potted with wire version

Typical Applications

- Communication devices
- Testina equipment
- Security/Alarm systems
- Automotive: door latch, seat position detection, EV charging





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: -40°C + 85°C.

OPERATING FORCE: 130 grams.

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

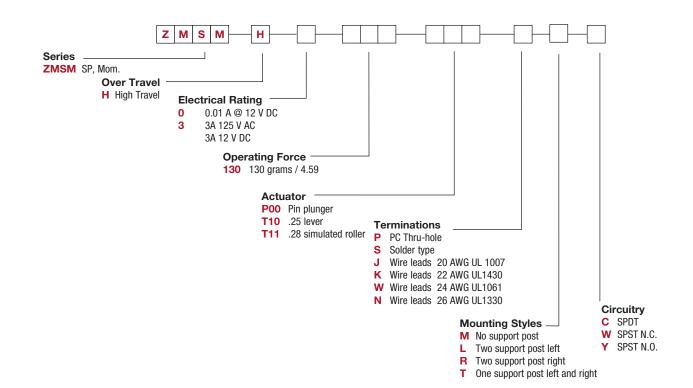
LEVER: Stainless steel

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

Sealing cap could possibly be damaged in case of contacts with oils or greases. Please try to avoid direct contact. If more support is needed, consult Customer

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.



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

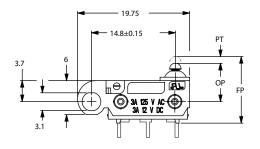


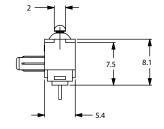
KSD-ZMSM Series with Mounting Hole Mini Size Snap-acting Switches

SERIES

ZMSMH HIGH OVER TRAVEL







MODEL SHOWN: ZMSMHXXXXP00PLC

ELECTRICAL RATING

			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 with option "S" (solder type) only.

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

OPERATING FORCE

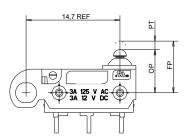
OPTION CODE	BASIC SWITCH OPERATING FORCE (OZ./GRAMS)			
130	1 <u>30</u> 4.59			



KSD-ZMSM Series with Mounting Hole Mini Size Snap-acting Switches

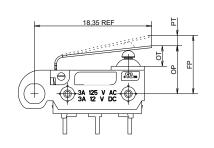
ACTUATOR

P00 PIN PLUNGER (IP65)



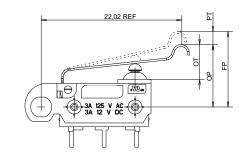
MODEL SHOWN: ZMSMHXXXXP00PLC

T10 .25 LEVER (IP65)



MODEL SHOWN: ZMSMHXXXXT10PLC

T11 LEVER (IP65)



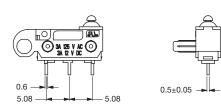
MODEL SHOWN: ZMSMHXXXXT11PLC

SWITCH CHARACTERISTICS

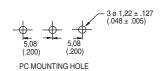
Actuator code	Maximum Operate Force (grams/oz.)	Minimum Release Force (grams/oz.)	Free Position Max (mm)	Maximum Pre-travel (mm)	Operate Position (mm)	Maximum Differential (mm)	Overtravel min. (mm)
P00	130 4.59	13 0.45	7.35	0.8	6.75 ± 0.3	0.3	1.75
T10	195 6.88	55 1.93	10.70	3.85	7.40 ± 0.8	0.5	2.3
T11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

TERMINATIONS

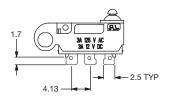
P PC THRU-HOLE (IP65)



MODEL SHOWN: ZMSMHXXXXP00PLC



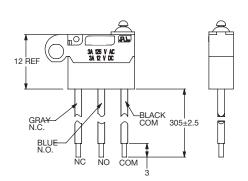
S SOLDER TYPE (IP65)





MODEL SHOWN: ZMSMHXXXXP00SMC

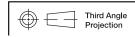
$\mathbf{J},\,\mathbf{K},\,\mathbf{W},\,\mathbf{N}$ WIRE LEADS BOTTOM (IP67)



Standard Wire: 20 AWG UL 1007

Available options - must specify J - 20AWG UL1007 (Standard)

K - 22AWG UL1430 W - 24AWG UL1061 N - 26AWG UL1330

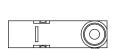


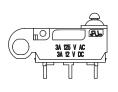


KSD-ZMSM Series with Mounting Hole Mini Size Snap-acting Switches

MOUNTING STYLES

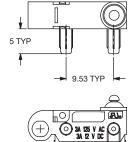






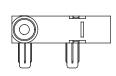
MODEL SHOWN: ZMSMHXXXXP00PMC

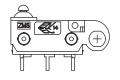
L TWO SUPPORT POSTS LEFT



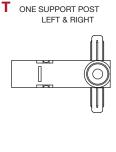
POSTS LEFT MODEL SHOWN: ZMSMHXXXXP00PLC

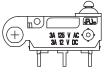
Ø2.6 TYP Ø2.2 TYP R TWO SUPPORT POSTS RIGHT





POSTS RIGHT MODEL SHOWN: ZMSMHXXXXP00PRC





LEFT & RIGHT MODEL SHOWN: ZMSMHXXXXP00PTC

CIRCUITRY

SPDT (Single Pole, Double Throw)

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

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

