ZMSM Series with Mounting Hole Mini Size Snap-acting Switches





Specifications

Contact Rating	3A@ 125 V AC/ 3A@ 12 V DC, 0.01A @ 12 V DC			
Electrical Life	100,000 cycles @ 0.01A 12V DC 100,000 cycles @ 3A 12 V DC 6,000 cycles @ 3A 125 V AC			
Insulation Resistance	100 M ohm min.			
Dielectric Strength	500 Vrms.			
Operating Temperature	-40°C to 85°C			
Operating Force	130 grams			

Notes:

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

Agency	Agency File Number		
c 🔁 us	E42363		
15	ENEC-03316		

Description

The ZMSM series is a mini size snap-acting switch, perfect for use in communication devices, testing equipment and security or alarm systems. Designers turn to the ZMSM series because of its reliable snap-acting mechanism, long electrical and mechanical life, various PCB terminals and actuators and its compliance with regulations such as RoHS and IP67 (IP67 for standalone switch except the metal terminal part; Full IP67 protection when potted with wire version).

Features & Benefits

- Reliable snap-acting mechanism
- Long electrical and mechanical life
- Various PCB terminals & actuators

Applications

- Communication devices
- Testing equipment
- Security/Alarm systems

- RoHS compatible
- IP67 for standalone switch except the metal terminal part; Full IP67 protection when potted with wire version
- Automotive: door latch, seat position detection, EV charging

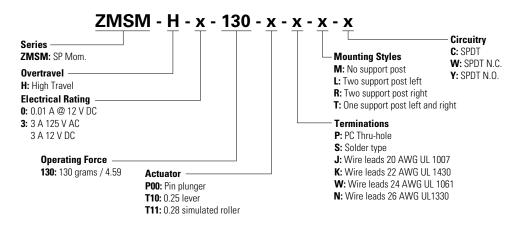
Materials					
Case	Nylon				
Cover/Actuator	PBT				
Movable Contacts	3 amp silver, 0.01A gold				
Stationary Contacts					
Terminals	Brass, pre-plated with silver				
Lever	Stainless steel				

Notes:

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

Ordering Number

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.

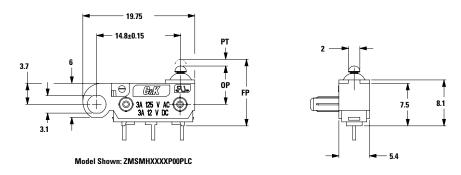




ELittelfuse **C**&K Switches

ZMSM Series with Mounting Hole Mini Size Snap-acting Switches

Series (mm) ZMSMH High Over Travel



Electrical Rating

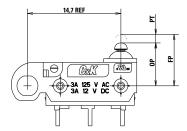
Ontion Code	RoHS	Contact Material	Electrical Rating			
	Compliant	Compatible	Movable Contact/Stationary Contact	Electrical nating		
0	Yes		Gold alloy	0.01 A @ 12 V DC		
3	Yes		Yes		Silver alloy	3 amps @ 125 V AC, 3 AMPS @ 12 V DC

Notes:

1. 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	130, 4.59		

P00 Pin Plunger (IP65)



MODEL SHOWN: ZMSMHXXXXP00PLC

Actuator (mm) T10 0.25 Lever (IP65)

. Ito

5

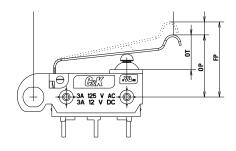
18,35 REF

Gels

MODEL SHOWN: ZMSMHXXXXT10PLC

μe

T11 Lever (IP65)



MODEL SHOWN: ZMSMHXXXXT11PLC

Switch Characteristics

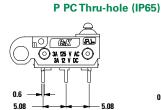
Actuator Code	Maximum Operate Force (grams/oz.)	Minimum Release Force (grams/oz.)	Free Position Max	Maximum Pre-travel	Operate Position	Maximum Differential	High Overtravel Min. (H)
P00	130, 4.59	13, 0.45	7.35	0.8	6.75 ± 0.3	0.3	1.75
T10	195, 6.88	55, 1.93	10.70	3.85	7.40 ± 0.8	0.5	2.3
T11	160, 5.64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



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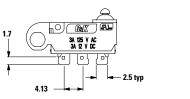


Terminations (mm)

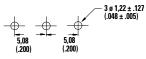




S Solder Type (IP65)



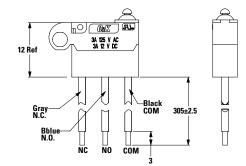
Model Shown: ZMSMHXXXXP00PLC



PC Mounting Hole

Model Shown: ZMSMHXXXXP00SMC

J, K, W, N Wire Lead Bottom (IP67)

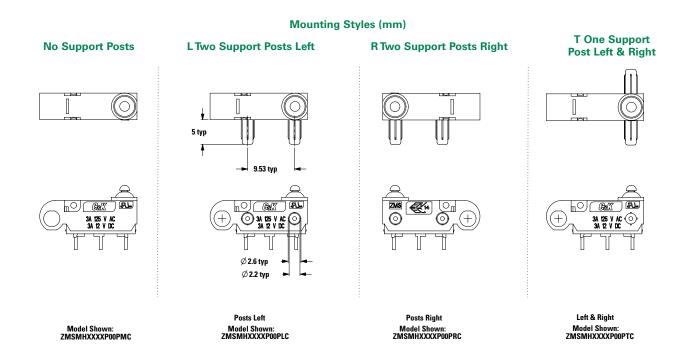


Notes:

Standard Wire: 20 AWG UL 1007 Available options - must specify J: 20AWG UL1007 (Standard) K: 22AWG UL1030 W: 24AWG UL1061 N: 26AWG UL1330

ZMSM Series with Mounting Hole Mini Size Snap-acting Switches





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)

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