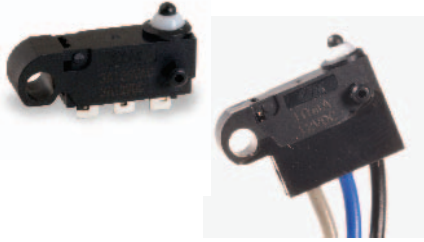


ZMSM Series with Mounting Hole Subminiature Snap-acting Switches (IP65)



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 V AC
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.

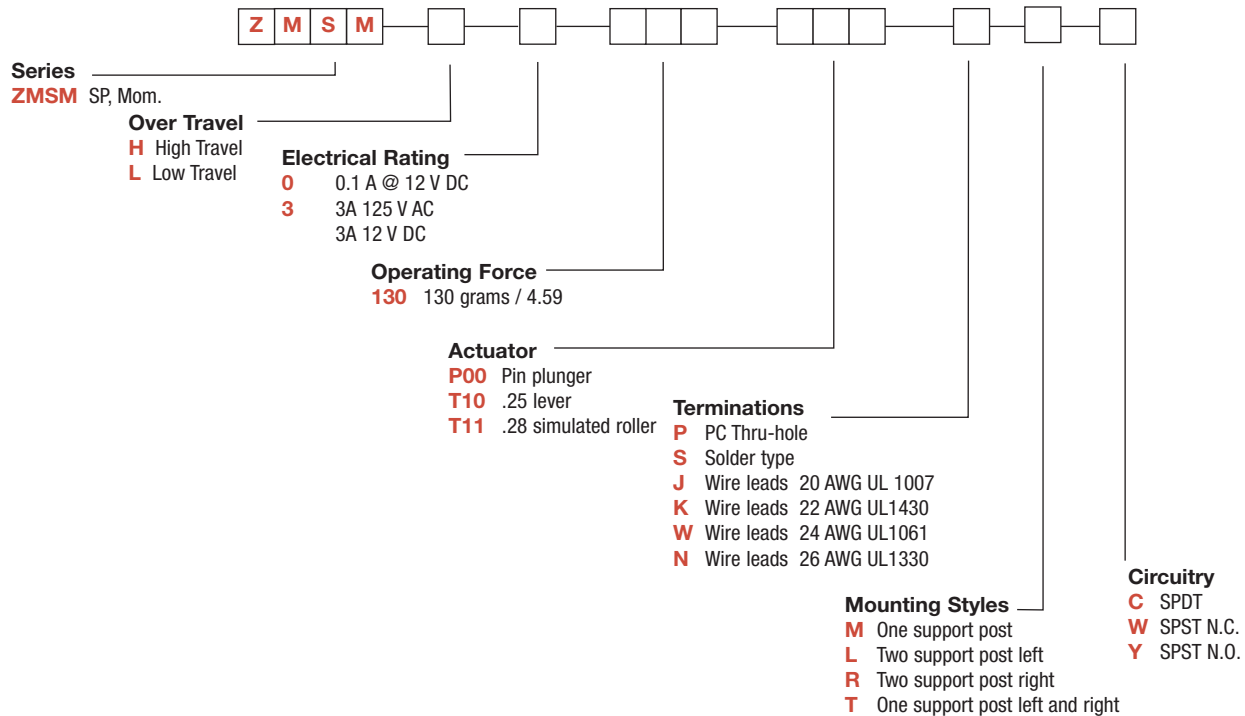
Materials

CASE: Nylon
COVER/ACTUATOR: PBT
MOVABLE CONTACTS: 3 Amp silver, 0.1 Amp gold
STATIONARY CONTACTS: 3 Amp silver, 0.1 Amp 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-65 and J-67. For additional options not shown in catalog, consult Customer Service Center.

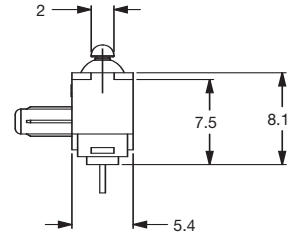
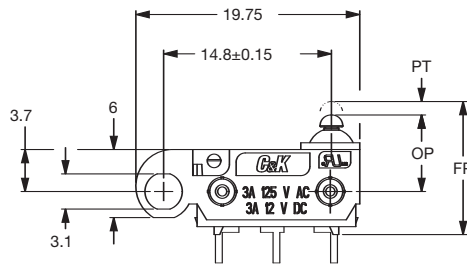


Dimensions are shown: mm
Specifications and dimensions subject to change

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

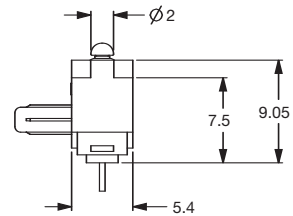
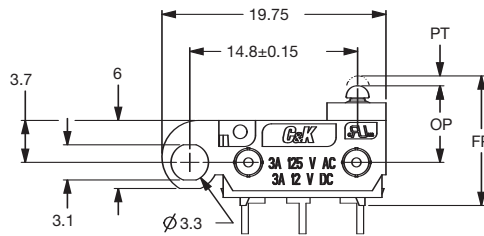
SERIES

ZMSMH HIGH OVER TRAVEL



MODEL SHOWN: ZMSMHXXXP00PLC

ZMSML LOW OVER TRAVEL



MODEL SHOWN: ZMSMLXXXP00PLC

ELECTRICAL RATING

| OPTION CODE | RoHS COMPLIANT* | RoHS COMPATIBLE* | CONTACT MATERIAL | | ELECTRICAL RATING |
|-------------|-----------------|------------------|------------------|--------------------|---------------------------------------|
| | | | MOVABLE CONTACT | STATIONARY CONTACT | |
| 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 **cus** 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

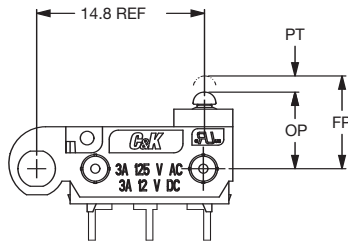


Dimensions are shown: mm
Specifications and dimensions subject to change

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

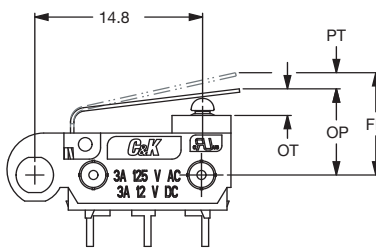
ACTUATOR

P00 PIN PLUNGER (IP65)



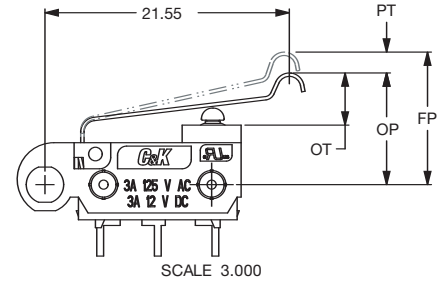
MODEL SHOWN: ZMSMLXXXXP00PLC

T10 .25 LEVER (IP65)



MODEL SHOWN: ZMSMLXXXT10PLC

T11 LEVER (IP65)



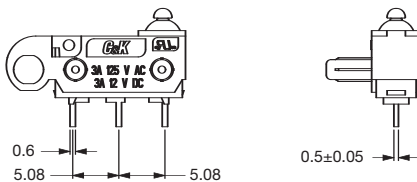
MODEL SHOWN: ZMSMLXXXT11PLC

SWITCH CHARACTERISTICS

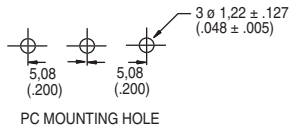
| Actuator code | Maximum Operate Force (grams/oz.) | Minimum Release Force (grams/oz.) | Free Position Max (mm) | Maximum Pre-travel (mm) | Operate Position (mm) | Maximum Differential (mm) | Low Overtravel min. (mm) | High Overtravel min. (mm) |
|---------------|-----------------------------------|-----------------------------------|------------------------|-------------------------|-----------------------|---------------------------|--------------------------|---------------------------|
| P00 | 130 4.59 | 13 0.45 | 7.35 | 0.8 | 6.75 ± 0.2 | 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

P PC THRU-HOLE (IP65)

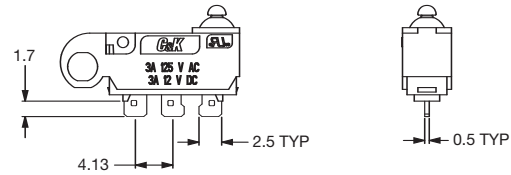


MODEL SHOWN: ZMSMHXXXXP00PLC



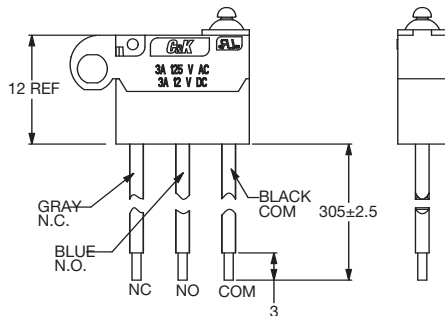
PC MOUNTING HOLE

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



Third Angle Projection

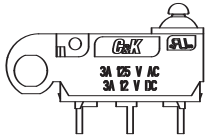
Dimensions are shown: mm
Specifications and dimensions subject to change



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

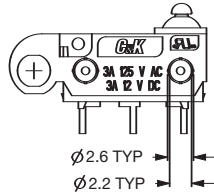
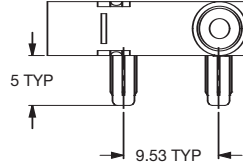
MOUNTING STYLES

M NO SUPPORT POSTS



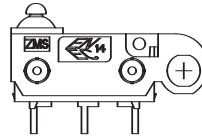
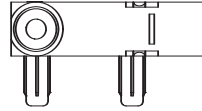
MODEL SHOWN:
ZMSMHXXXXP00PMC

L TWO SUPPORT POSTS LEFT



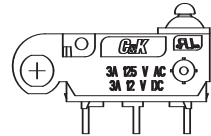
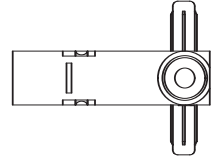
POSTS LEFT
MODEL SHOWN:
ZMSMHXXXXP00PLC

R TWO SUPPORT POSTS RIGHT



POSTS RIGHT
MODEL SHOWN:
ZMSMHXXXXP00PRC

T ONE SUPPORT POST
LEFT & RIGHT



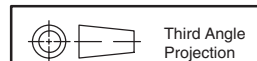
LEFT & RIGHT
MODEL SHOWN:
ZMSMHXXXXP00PTC

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)



Snap-acting



Third Angle Projection
Dimensions are shown: mm
Specifications and dimensions subject to change