

ZM Series Subminiature Snap-acting Switches

Features/Benefits

- **Reliable snap-acting mechanism**
- **Long electrical and mechanical life**
- **Compact size—Ideal when space is limited**
- **Various PCB terminals and actuators**
- **RoHS compatible**



Typical Applications

- **PCB detection switch**
- **Communication devices**
- **Testing equipment**
- **Security/Alarm systems**
- **Consumer electronics**



Models Available

Specifications

CONTACT RATING: F7: 3A @ 125 VAC; 1.5A @ 250 VAC
M9: 0.2A @ 60 VDC.
ELECTRICAL LIFE: 15,000 Cycles. @ 3A
INSULATION RESISTANCE: 100 M ohm min.
DIELECTRIC STRENGTH: 1000 Vrms.
OPERATING TEMPERATURE: -30°C to 85°C.
OPERATING FORCE: CJ: 150 grams, CH: 90 grams.

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

Materials

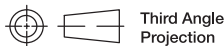
CASE: Nylon 4/6
COVER/ACTUATOR: Nylon 6/6
MOVABLE CONTACTS: Silver, gold plated.
STATIONARY CONTACTS: Silver, gold plated.
TERMINALS: Brass, tin plated.

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-34 and J-35. For additional options not shown in catalog, consult Customer Service Center.

| | |
|--|----------------------|
| Series | <input type="text"/> |
| ZM SP, Mom. | |
| Operating Force | <input type="text"/> |
| CJ 150 grams | |
| CH 90 grams | |
| Electrical Rating | <input type="text"/> |
| F7 3 A, 125 V AC; 1.5A, 250 VAC | |
| M9 0.2 A, 60 V DC | |
| Actuator | <input type="text"/> |
| P0 Pin plunger | |
| L0 Leaf | |
| L3 Leaf | |
| T13 Simulated roller | |
| T23 Simulated roller | |
| Terminations | <input type="text"/> |
| T PC Thru-hole | |
| L Left-footed, PC Thru-hole | |
| R Right-footed, PC Thru-hole | |
| K PC Thru-hole with retention feature | |



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

ZM SUBMINIATURE SNAP-ACTING SWITCHES – SP MOMENTARY



ZMCJF7L0T
SPDT

| OPTION CODE | BASIC SWITCH OPERATING FORCE (OZ./GRAMS) |
|-------------|--|
| CJ | 5.29 150 |
| CH | 3.15 90 |

| OPTION CODE | RoHS COMPLIANT* | RoHS COMPATIBLE* | CONTACT MATERIAL | | ELECTRICAL RATING |
|-------------|-----------------|------------------|-----------------------|-----------------------|-----------------------------------|
| | | | MOVABLE CONTACT | STATIONARY CONTACT | |
| F7 | Yes | Yes | Fine Silver | Fine silver | 3 AMPS @ 125 V AC; 1.5A @ 250 VAC |
| M9 | Yes | Yes | Gold over fine silver | Gold over fine silver | 0.2 AMP @ 60 V DC |

All models with all options.

Third Angle Projection

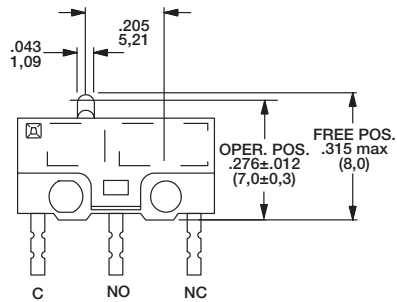
Dimensions are shown: Inch (mm)

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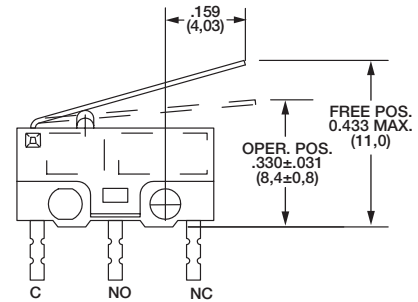
ACTUATOR

P0 PIN PLUNGER



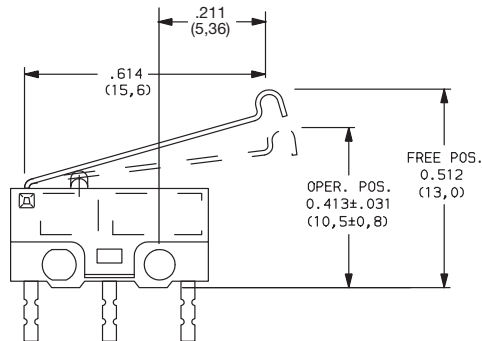
L0 LEAF, 50 GRAMS (CJ ONLY)

L3 LEAF, 30 GRAMS (CH ONLY)



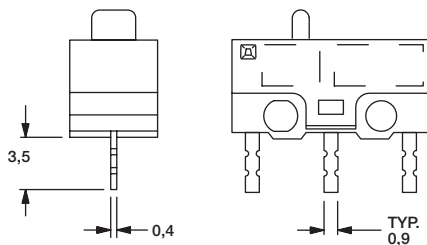
T13 SIMULATED ROLLER, 40 GRAMS (CJ ONLY)

T23 SIMULATED ROLLER, 25 GRAMS (CH ONLY)

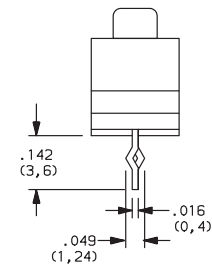


TERMINATIONS

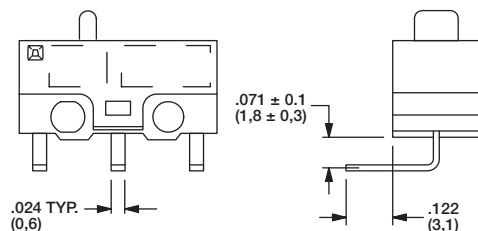
T (STD.) PC THRU-HOLE



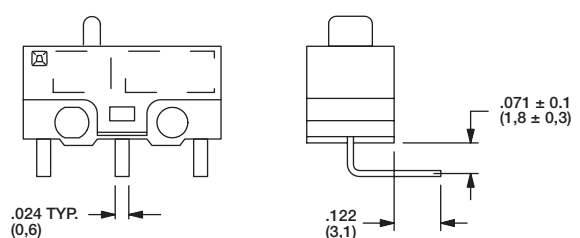
K PC THRU-HOLE WITH RETENTION FEATURE



L LEFT FOOTED, PC THRU-HOLE



R RIGHT FOOTED, PC THRU-HOLE



Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



Snap-acting