

ZMW Series

Mini Size Snap-acting Switches



Features/Benefits

- Long & adequate stroke setting for high reliability & insulation
- Silent actuation for reduced audible click
- Compact size – ideal when space is limited
- Twin contacts design – sliding contacts prevent pollution of foreign materials
- IP67 for standalone switch except the metal terminal part; Full IP67 protection when potted with wire version
- RoHS compatible & compliant

Typical Applications

- Industrial
- Home appliances
- Automotive: door latch, seat position detection, EV charging

Specifications

CONTACT RATING: 100mA 30VDC @ 300,000 cycles min.
50mA 16VDC @ 500,000 cycles min.
1mA 5VDC @ 500,000 cycles min.

MECHANICAL LIFE: 500,000 cycles min.

INSULATION RESISTANCE: 100 M ohm min.

DIELECTRIC STRENGTH: Min. 600VAC (50-60Hz)/minute
between Live Parts

OPERATING TEMPERATURE: -40°C to 85°C

OPERATING FORCE: 150 gf max.

Materials

CASE: Nylon

COVER: PBT

ACTUATOR BUTTON: POM

MOVABLE CONTACTS: Silver alloy or gold plated

STATIONARY CONTACTS: Silver alloy or gold plated

TERMINALS: Brass, silver plated.

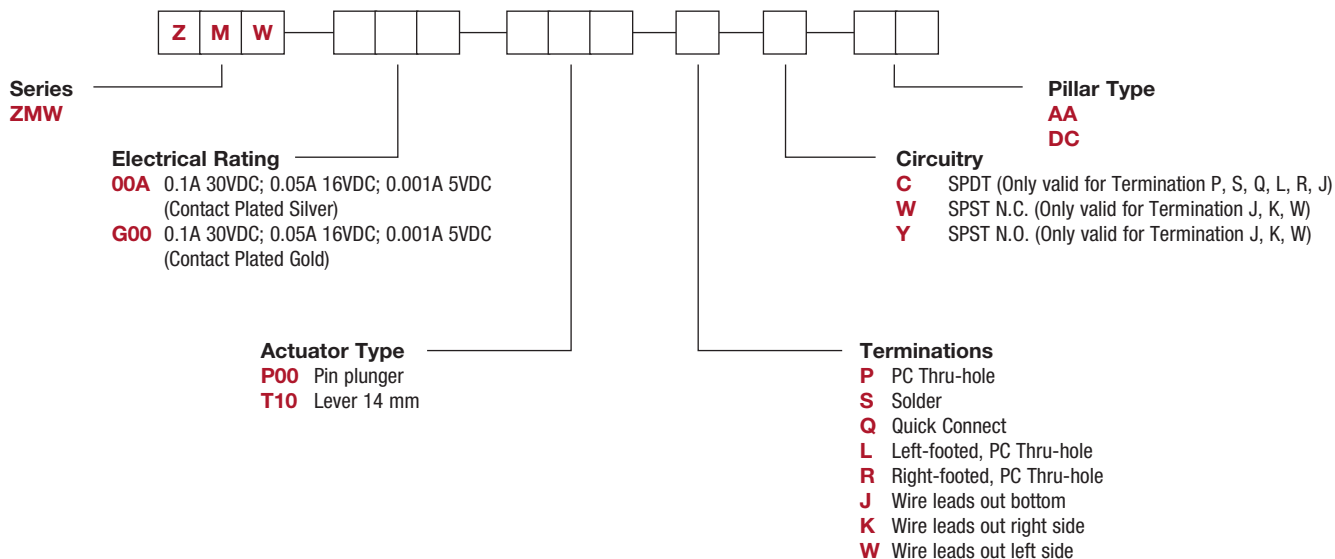
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.



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 Centre.

Build-A-Switch

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



SERIES

Technical drawing of a vertical component, likely a probe or sensor, showing dimensions in millimeters. The drawing includes a central vertical axis and a horizontal centerline. Key dimensions are labeled:

- Top diameter: 1.9
- Horizontal distance from centerline to the side of the top section: 1.5
- Horizontal distance from centerline to the side of the middle section: 1.5
- Bottom diameter: 0.4 ± 0.05
- Total height: 5.4 ± 0.15

Figure 1: Schematic diagram of the plunger position. The diagram shows three vertical lines representing the COM, NO, and NC positions. The distance between COM and NO is 5.08 ± 0.1 . The distance between COM and NC is 10.16 ± 0.1 . The NC position is also labeled with a dimension $3-\phi 16 \pm 0.1$.

J

Snap-acting

Diagram illustrating the End Position Mounting for the C&K 1000 Series 10-Z. The diagram shows the component mounted on a base with dimensions: FP, NC(OP), NO(OP), and End Position Min. 10-Z.



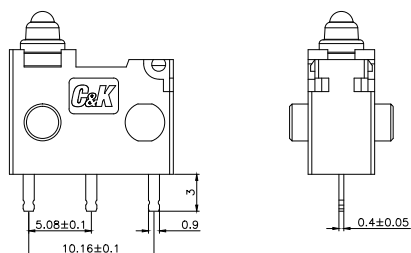
www.ckswitches.com

ZMW Series

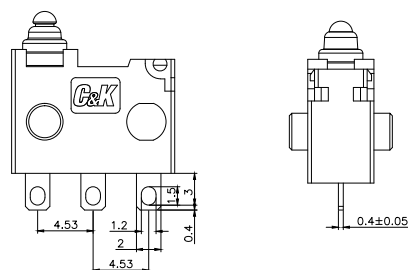
Mini Size Snap-acting Switches

TERMINATIONS

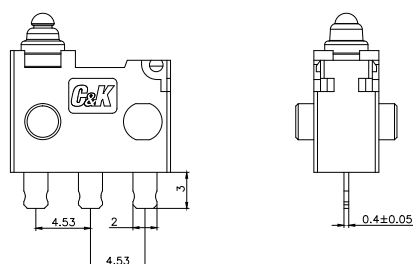
P PC THRU-HOLE



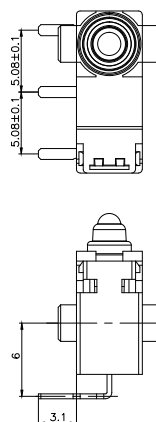
S SOLDER



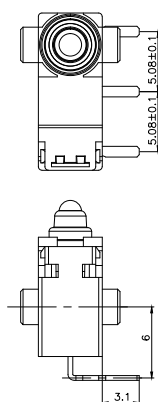
Q QUICK CONNECT



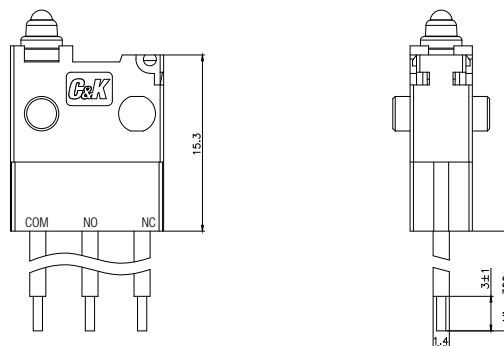
L LEFT-FOOTED,
PC THRU-HOLE



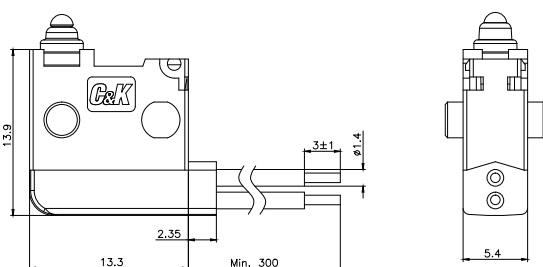
R RIGHT-FOOTED,
PC THRU-HOLE



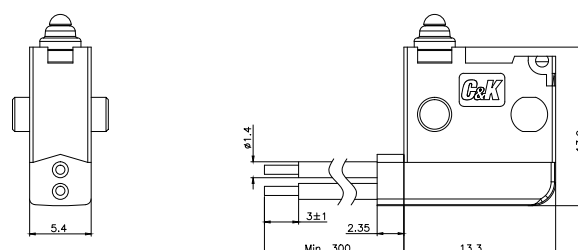
J WIRE LEADS OUT BOTTOM



K WIRE LEADS OUT RIGHT SIDE



W WIRE LEADS OUT LEFT SIDE

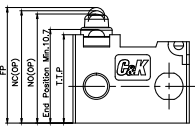
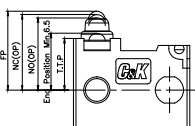
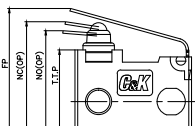
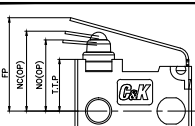


COM: AVSS 0.3 MM² BLACK OR EQUIVALENT
NO: AVSS 0.3 MM² BLUE OR EQUIVALENT
NC: AVSS 0.3 MM² GRAY OR EQUIVALENT

Dimensions are shown: mm
Specifications and dimensions subject to change

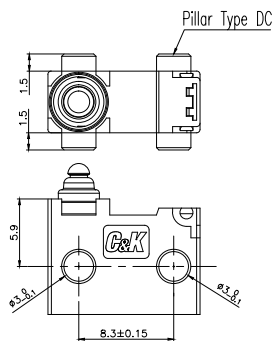
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SWITCH CHARACTERISTICS

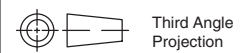
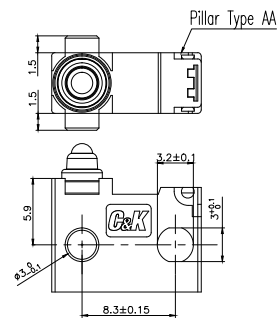
SWITCH TYPE	PART SUFFIX	OF Max (gf)	FP Max (mm)	NC-OP (mm)	NO-OP (mm)	NC-OT Min.(mm)	NO-OT Min. (mm)
ZMWXXXP00XXXX	 Datum from Bottom	S	153	13.4	12.9±0.3	2.5	2.2
	 Datum from Centre			9.2	8.7±0.3		
ZMWXXXT10XXXX	 Datum from Bottom	S	185	15.7	14.0±0.6	3.0	2.45
	 Datum from Centre			11.5	9.8±0.6		

PILLAR TYPE

DC



AA



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:

[ZMW00AP00JCAA](#) [ZMW00AP00PCAA](#) [ZMW00AP00JCDC](#) [ZMW00AP00JWAA](#) [ZMW00AP00JWDC](#)
[ZMW00AP00JYAA](#) [ZMW00AP00JYDC](#) [ZMW00AP00KWAA](#) [ZMW00AT10SCAA](#) [ZMW00AT10SCDC](#)
[ZMW00AT10KWAA](#) [ZMW00AT10KWDC](#) [ZMW00AT10KYAA](#) [ZMW00AT10KYDC](#) [ZMW00AT10PCAA](#)
[ZMW00AT10PCDC](#) [ZMW00AT10JCAA](#) [ZMW00AT10JCDC](#) [ZMW00AT10JWAA](#) [ZMW00AT10JWDC](#)
[ZMW00AT10JYAA](#) [ZMW00AT10JYDC](#) [ZMW00AP00KWDC](#) [ZMW00AP00KYAA](#) [ZMW00AP00KYDC](#)
[ZMW00AP00PCDC](#) [ZMW00AP00SCAA](#) [ZMW00AP00SCDC](#) [ZMWG00T10JYAA](#) [ZMWG00T10KYAA](#)
[ZMW00AT10LCDC](#) [ZMWG00T10RCAA](#)