

# 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

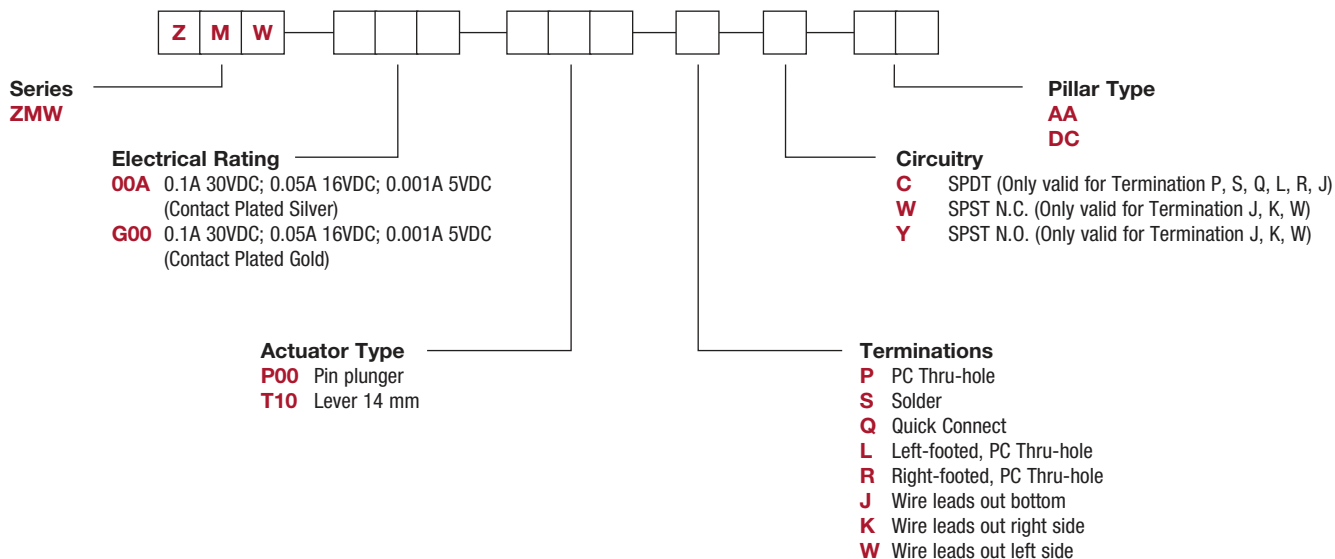
TERMINALS: Brass, silver plated.

**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

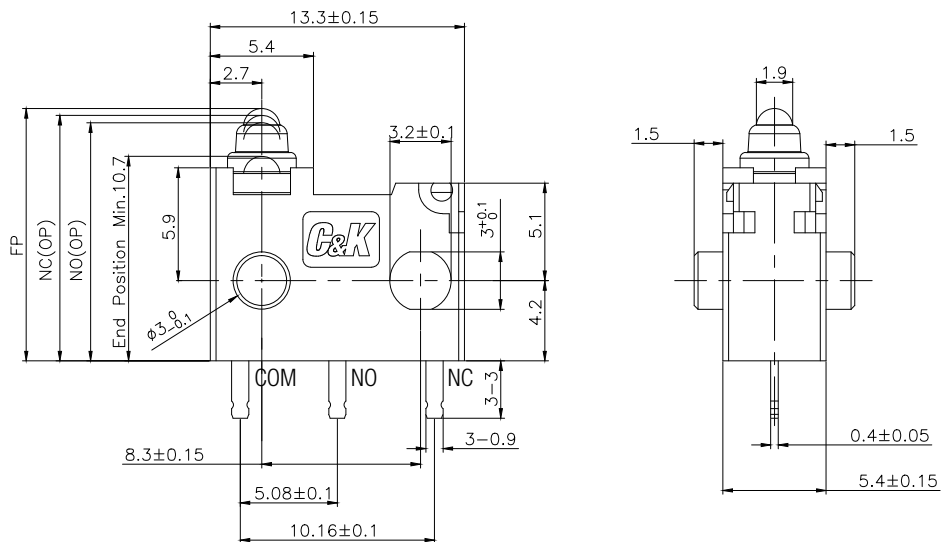
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



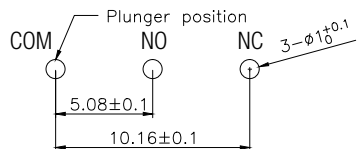
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## SERIES

**ZMW** MINI SIZE SNAP-ACTING SWITCHES

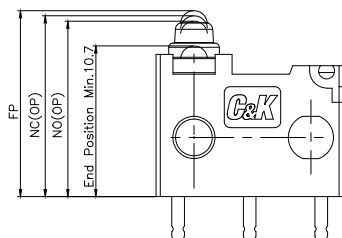


MOUNTING HOLES

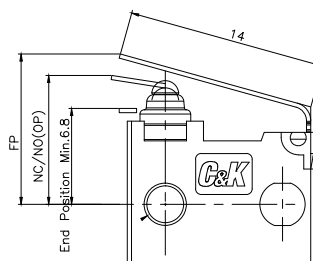


## ACTUATOR TYPE

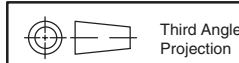
**P00** PIN PLUNGER



**T10** LEVER  
14 MM



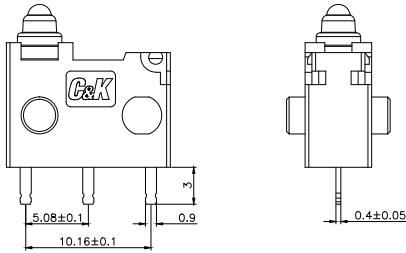
Snap-acting



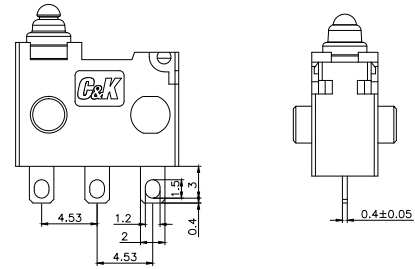
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## TERMINATIONS

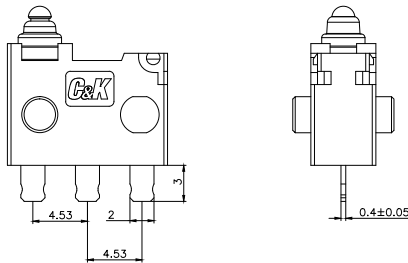
**P** PC THRU-HOLE



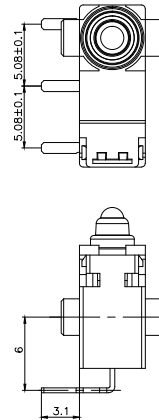
**S** SOLDER



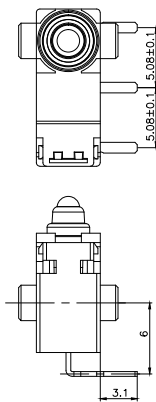
**Q** QUICK CONNECT



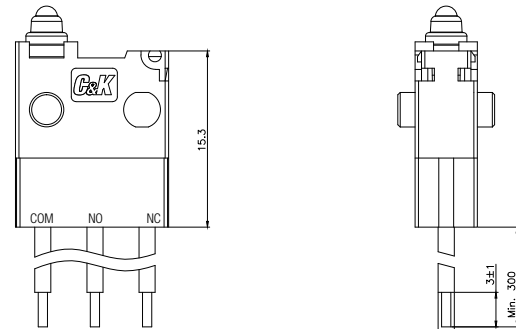
**L** LEFT-FOOTED,  
PC THRU-HOLE



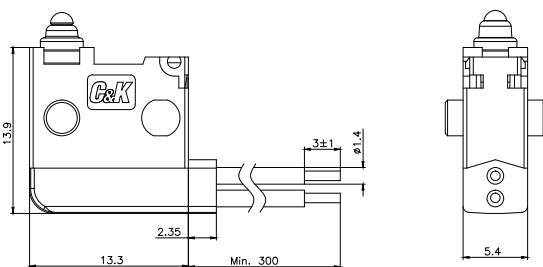
**R** RIGHT-FOOTED,  
PC THRU-HOLE



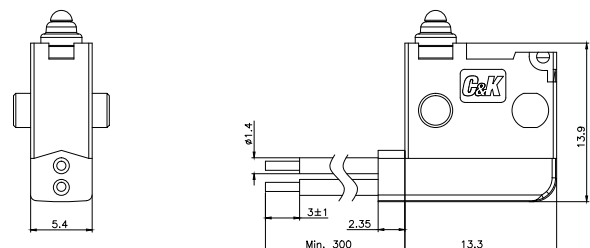
**J** WIRE LEADS OUT BOTTOM



**K** WIRE LEADS OUT RIGHT SIDE



**W** WIRE LEADS OUT LEFT SIDE

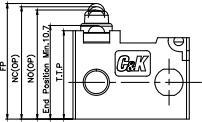
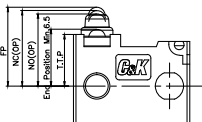
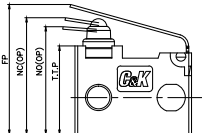
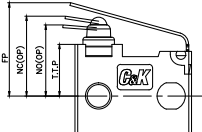


COM: AVSS 0.3 MM<sup>2</sup> BLACK OR EQUIVALENT  
NO: AVSS 0.3 MM<sup>2</sup> BLUE OR EQUIVALENT  
NC: AVSS 0.3 MM<sup>2</sup> GRAY OR EQUIVALENT

Dimensions are shown: mm  
Specifications and dimensions subject to change

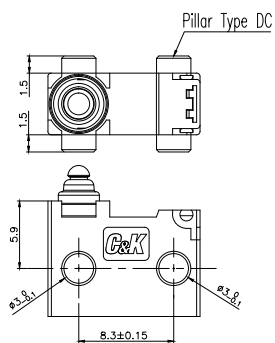
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## SWITCH CHARACTERISTICS

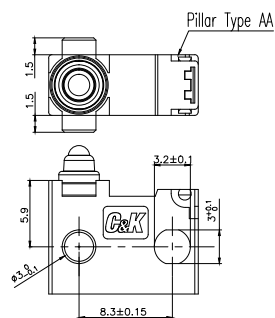
SWITCH TYPE	PART SUFFIX	OF Max (gf)	FP Max (mm)	NC-OP (mm)	NO-OP (mm)	NC-OT Min.(mm)	NO-OT Min. (mm)	
ZMWXXXP00XXXX	 Datum from Bottom	S	153	13.4	12.9±0.3	12.6±0.3	2.5	2.2
	 Datum from Centre			9.2	8.7±0.3	8.4±0.3		
ZMWXXXT10XXXX	 Datum from Bottom	S	185	15.7	14.0±0.6	13.45±0.6	3.0	2.45
	 Datum from Centre			11.5	9.8±0.6	9.25±0.6		

## PILLAR TYPE

DC



AA



Dimensions are shown: mm  
Specifications and dimensions subject to change



Snap-acting