

# ZP series

Subminiature pushbutton switches • metal bushing



## DISTINCTIVE FEATURES

Ø 4.83 mm threaded bushing

Solder lug and straight PC terminals



## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - gold plated contacts : 0.4 VA 20 V max. AC or DC
  - silver plated contacts : 0.5 A 48V max. AC or DC
- Minimum load : 10 mA 50 mV - 10 µA 5 VDC
- Contact resistance : 50 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength: 1,000 Vrms 50 Hz min. between terminals and frame / 500 Vrms 50 Hz min. between terminals
- Electrical life at full load :
  - gold plated contacts : 60,000 cycles
  - silver plated contacts: 20,000 cycles



## ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -30 °C to +85 °C (-22 °F to +185 °F)
- Moisture : 21 days 95 % (NFC 20-603 - IEC 68-2-3)



## GENERAL SPECIFICATIONS

- Travel :
  - function 2 (ON-MOM) : 1.2 mm (.047) ± 0.3 (.11)
  - function 3 (OFF-MOM) : 1 mm (.039) ± 0.3 (.11)
- Strength of terminals : pull-out force 10 N max.
- Torque : 1 Nm max. applied between the 2 nuts
- Max. panel thickness : 1.5 mm (.059) with 2 nuts



## SOLDERING

- Hand soldering : 280 °C (536 °F) max. for 5 seconds max.
- Wave soldering : 260 °C (500 °F) max. for 5 seconds max.

The company reserves the right to change specifications without notice.



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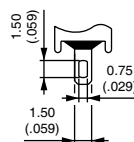
## MATERIALS

- Case : thermoplastic UL94-V0
- Actuator : thermoplastic UL94-V0
- Bushing : zamac, tin plated
- Contacts and terminals :
  - 0 : brass, gold plated (standard)
  - 1 : brass, silver plated
  - 3 : brass, gold plated (1.27 micron gold)
- Terminal seal : epoxy

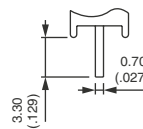
APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.



## TERMINALS



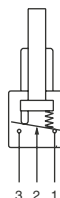
Solder lug



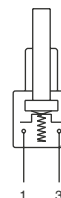
Straight PC



## ELECTRICAL FUNCTIONS



Function 2  
(ON - MOM)



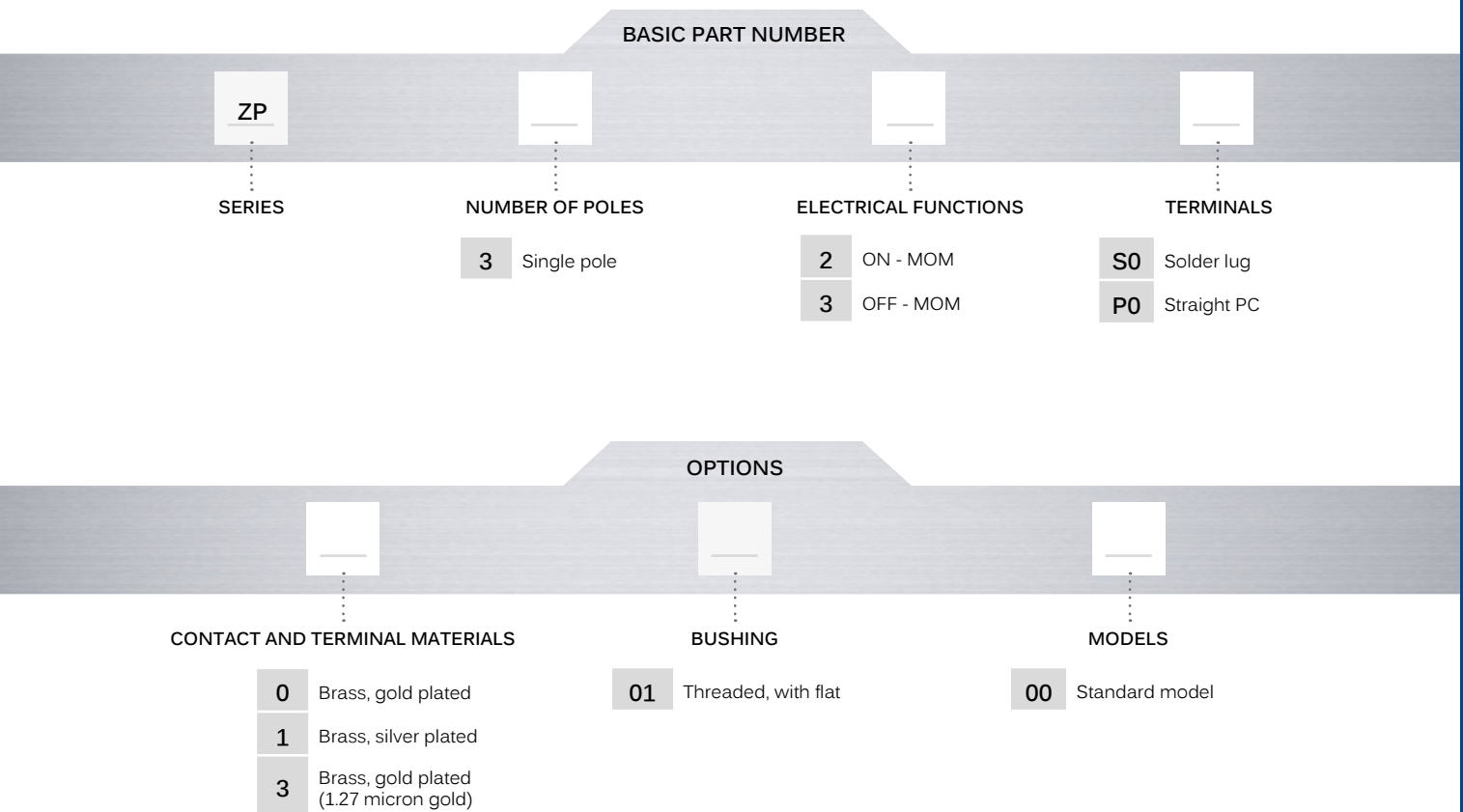
Function 3  
(OFF - MOM)

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## BUILD YOUR PART NUMBER



## ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart



**Notice:** please note that not all combinations of above numbers are available. Refer to the following pages for further information.



**Mounting accessories:** Standard hardware supplied with all models : 2 hex nuts 7 mm (.275) across flats P/N U5731,  
1 locking ring P/N U5831 and 1 lockwasher P/N U5841.

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## SOLDER LUG TERMINALS



ZP32S0



ON



MOM

ZP33S0

OFF

MOM

## SOLDER LUG TERMINALS



ZP32P0



ON



MOM

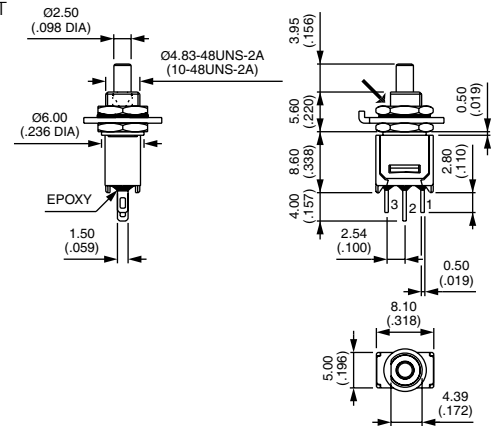
ZP33P0

OFF

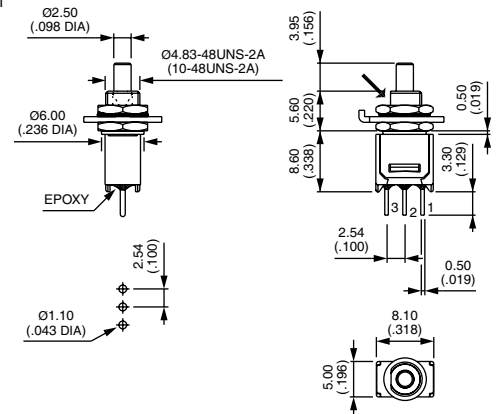
MOM

Shown in function 2 (ON-MOM)

→ FLAT



→ FLAT



## CONTACT & TERMINAL MATERIALS

BASIC P/N



00

- 0 Brass, gold plated (standard)
- 1 Brass, silver plated
- 3 Brass, gold plated (1.27 micron gold)

## BUSHING

BASIC P/N



00

- 01 Threaded, with flat

