

SP series

Washable snap-action pushbutton switches



DISTINCTIVE FEATURES

- Process sealed
- Front and rear sealing
- Process compatible (plain bushing models)
- Wave solderable
- Washable



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - gold plated brass contacts : 100 mA 30 VDC
 - silver or gold plated silver contacts : 1 A 30 VDC
- Initial contact resistance : 50 mΩ max.
- Insulation resistance : 1,000 MΩ min.
- Dielectric strength : 1,000 Vrms 50 Hz min.
- Electrical life : 60,000 cycles



ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -20 °C to +85 °C (-4 °F to +185 °F)
- Storage temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Moisture : The insulating materials employed and the complete seal permit the switches to withstand a 56 days moisture test (IEC 68-2-3).
- Solderability : The switches are tested at 235°C according to IEC 68-2-20 after accelerated aging.



GENERAL SPECIFICATIONS

- Torque : 0.25 Nm (.18 Ft.lb) applied to nut (threaded bushing)
- Total travel : 0.50 mm (.019)
- Mechanical strength : Terminals are strengthened by a bracket or a ground plate ensuring the rigidity of the switch on the board. Actuator strength is 10 N max.
- Soldering - thermal shock (plain bushing models only) :
The switches are especially designed for flow soldering at 260 °C (500 °F) during 5 seconds owing to high temperature polymer parts.
- Iron soldering (threaded bushing models) : 300 °C (572 °F) max., 5 seconds max.

The company reserves the right to change specifications without notice.



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MATERIALS

- Case and cover : UL94-V0, polyamide, glass filled or PES
- Actuator : polyamide, glass filled
- Contacts
 - 0 : brass, gold plated
 - 1 : silver
 - 2 : silver, gold plated
- Terminal seal : epoxy

AGENCY APPROVAL



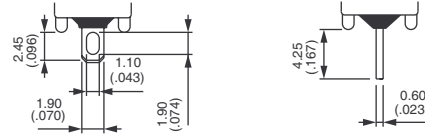
1 A 120 VAC

Availability : all models with silver or gold plated silver contacts.

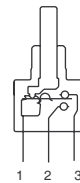
Marking : to order switches marked UL , complete appropriate box of ordering format.



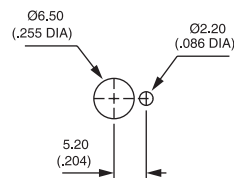
TERMINALS



ELECTRICAL FUNCTIONS



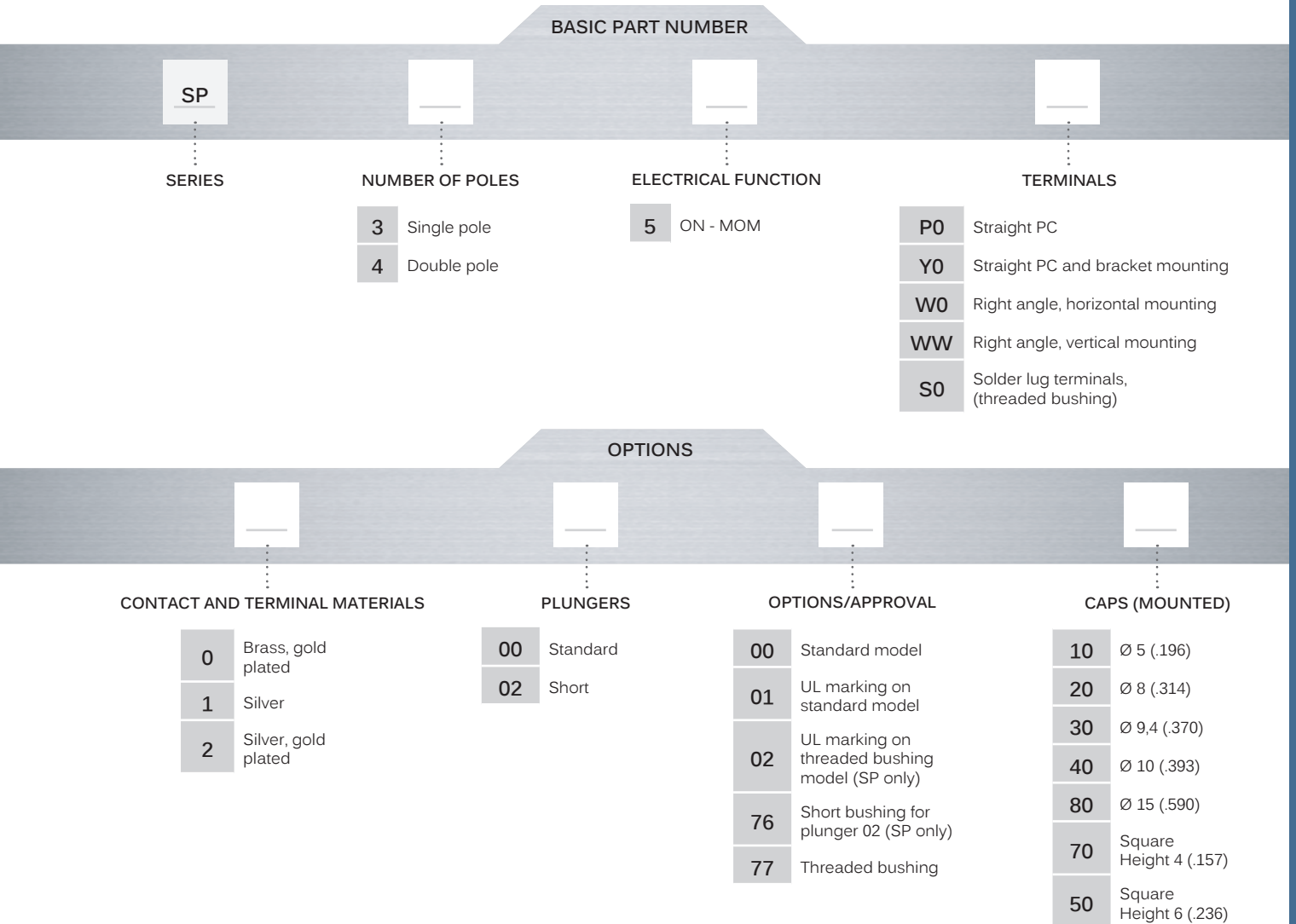
PANEL CUT-OUT



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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 with Ø 6.35 (1/4) threaded bushing : 2 hex nuts 8 mm (.314) across flats, 1 locking ring and 1 lockwasher. Standard and special hardware available are presented in "Accessories" section on website.

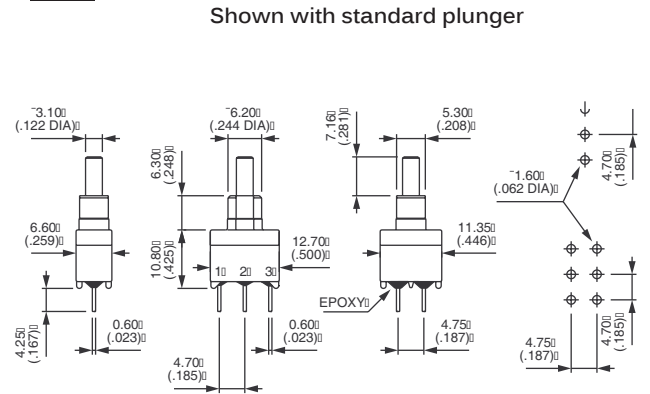
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PLAIN BUSHING - STRAIGHT PC TERMINALS





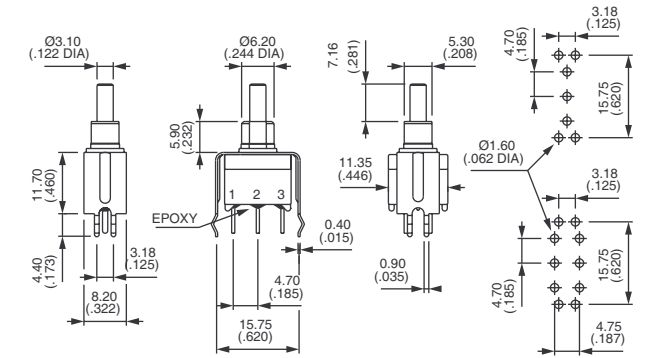
		
Single pole	1-3	1-2
SP35P0... 00	ON	MOM
Double pole		
SP45P0... 00	ON	MOM



PLAIN BUSHING - BRACKET MOUNTING





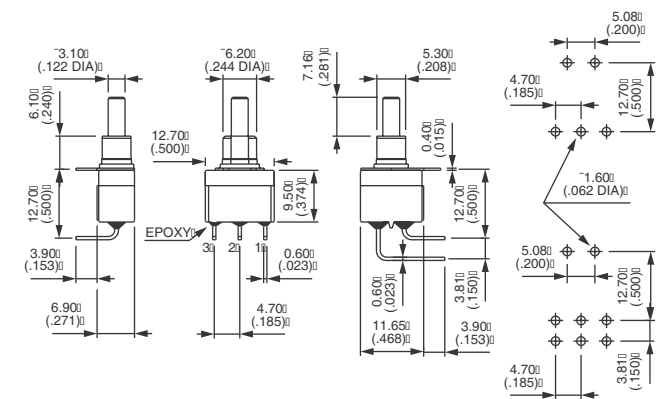
		
Single pole	1-3	1-2
SP35Y0... 00	ON	MOM
Double pole		
SP45Y0... 00	ON	MOM



PLAIN BUSHING - RIGHT ANGLE TERMINALS HORIZONTAL





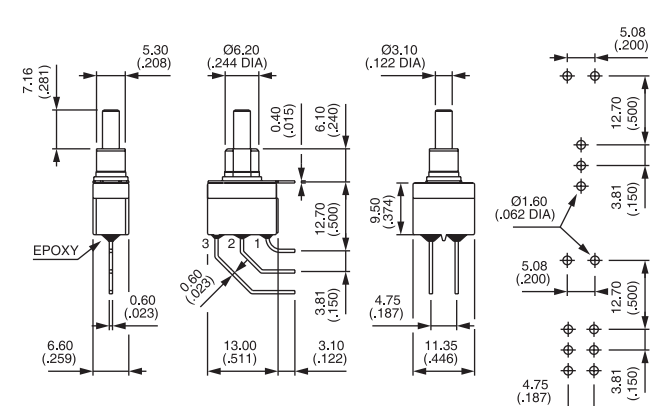
		
Single pole	1-3	1-2
SP35W0... 00	ON	MOM
Double pole		
SP45W0... 00	ON	MOM



PLAIN BUSHING - RIGHT ANGLE TERMINALS VERTICAL



		
Single pole	1-3	1-2
SP35WW... 00	ON	MOM
Double pole		
SP45WW... 00	ON	MOM



THREADED BUSHING - SOLDER LUG TERMINALS



Single pole
SP35S0... 77



1-3

ON



1-2

MOM

THREADED BUSHING - STRAIGHT PC TERMINALS



Single pole
SP35P0... 77



1-3

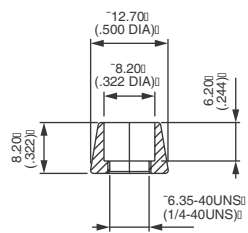
ON



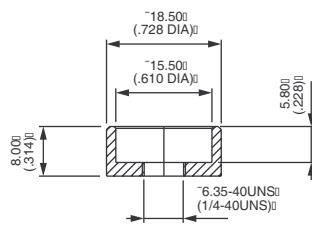
1-2

MOM

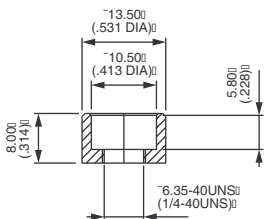
DRESS NUT FOR THREADED BUSHING MODELS ONLY



U1636
For cap U2510



U825
For cap U3400

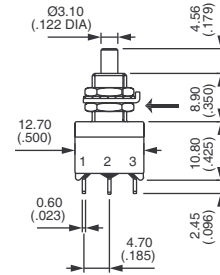
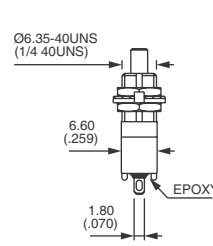


U840
For cap U2900

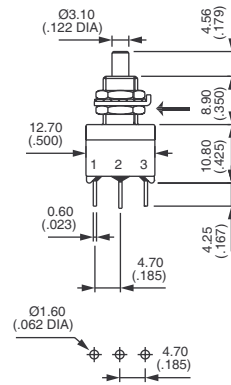
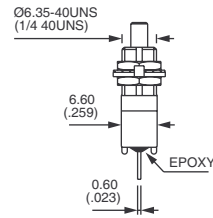
Dress nuts are to be ordered separately.

Shown with standard plunger

→ KEYWAY

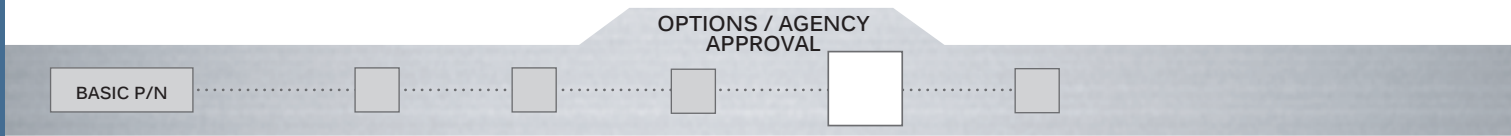


→ KEYWAY

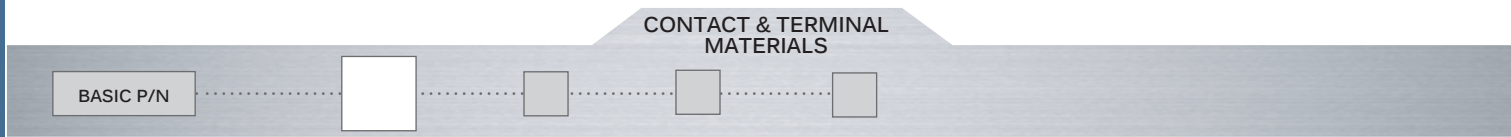


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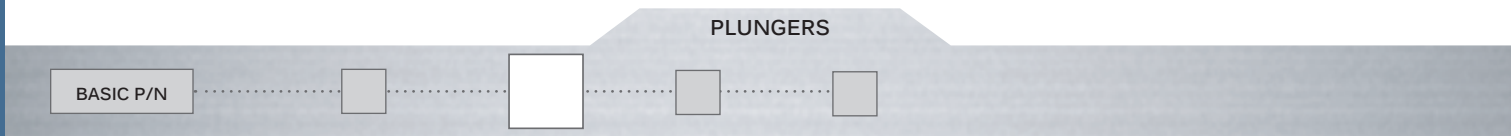
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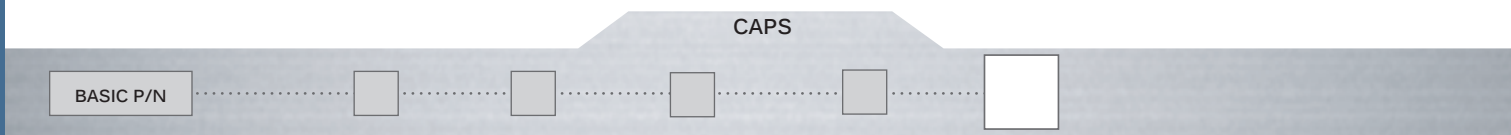
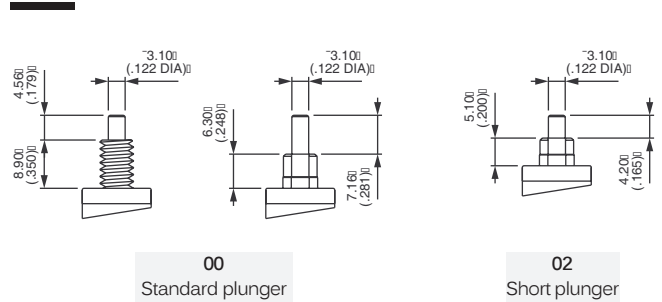
- 00 Standard model
- 01 UL marking for standard model
- 02 UL marking for threaded bushing model (single pole models only)
- 76 Short plain bushing for 02 plunger (single pole models only)
- 77 Threaded bushing (included in model numbers on previous page)



- 0 Brass, gold plated (standard)
- 1 Silver
- 2 Silver, gold plated



- 00 Standard plunger
- 02 Short (for models with plain bushing, single pole only) Order with option 76 below.

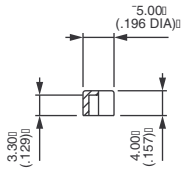
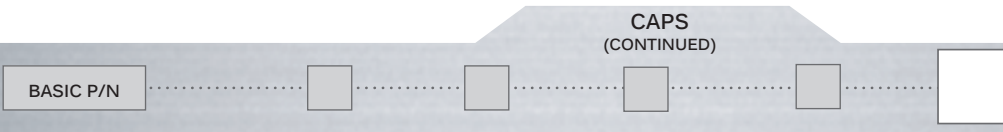


- | | |
|--|--|
| Blank Without cap | Replace «0» by number for cap colors : |
| 10 P/N U2400 | 1 Blue |
| 20 P/N U2510 | 1/4 Dark blue |
| 30 P/N U2130 | 2 Black |
| 40 Standard - P/N U2900 | 3 Green |
| 50 Square - P/N U2340. Not available with plunger 02 | 4 Grey |
| 70 Square - P/N U910 | 5 Yellow |
| 80 P/N U3400. Not available with plunger 02 | 6 Red |
| | 7 Ivory |
| | 7/1 White |
| | 9 Orange |

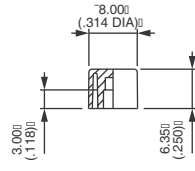
To order caps separately, use their P/N (U...) (for threaded bushing order only separately).

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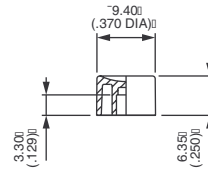
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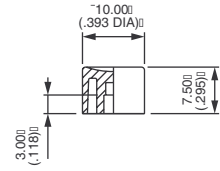
10



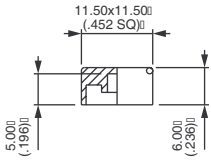
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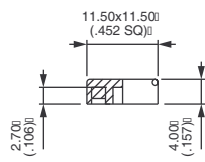
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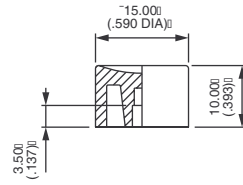
40



50



70



80