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 : $50 \text{ m}\Omega$ max.
- Insulation resistance : 1,000 $M\Omega$ min.
- Dielectric strength: 1,000 Vrms 50 Hz min.
- Electrical life: 60,000 cycles



ENVIRONMENTAL SPECIFICATIONS

- \bullet 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

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

AGENCY APPROVAL



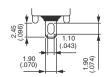
1 A 120 VAC

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

 ${\bf Marking:}$ to order switches marked UL , complete appropriate box of ordering format.



TERMINALS





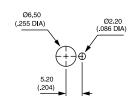


ELECTRICAL FUNCTIONS





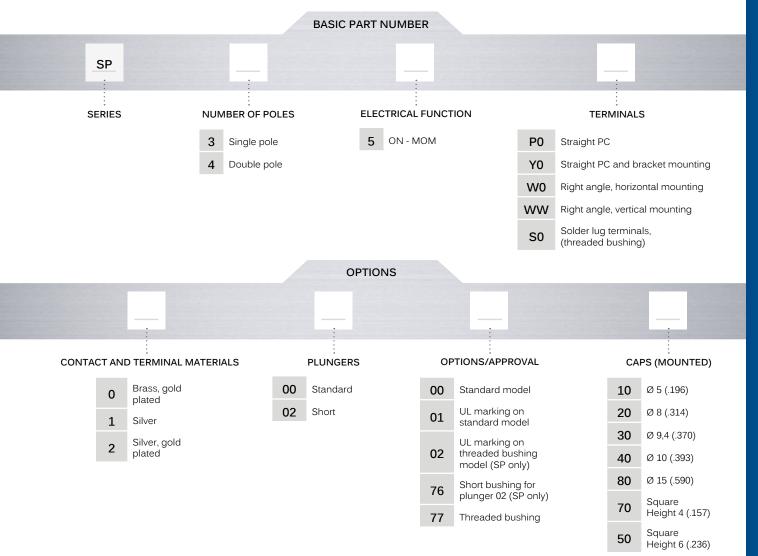
PANEL CUT-OUT



Washable snap-action pushbutton switches



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.

- (1) 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 is presented in the "Accessories" section of website.

Washable snap-action pushbutton switches

PLAIN BUSHING -STRAIGHT PC TERMINALS



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

PLAIN BUSHING - BRACKET MOUNTING



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

PLAIN BUSHING -RIGHT ANGLE TERMINALS HORIZONTAL



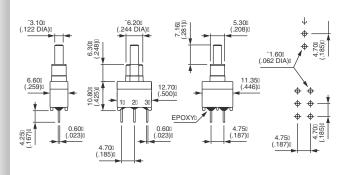
		Д
	1-3	1-2
Single pole		
SP35W0 00	ON	MOM
Double pole		
SP45W0 00	ON	MOM

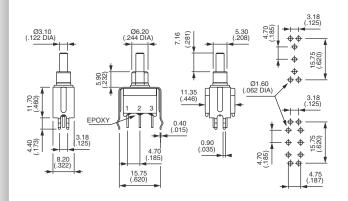
PLAIN BUSHING - RIGHT ANGLE TERMINALS VERTICAL

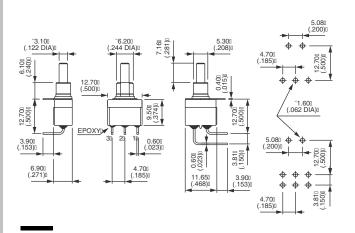


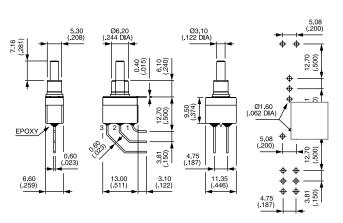
	1-3	1-2
Single pole		
SP35WW 00	ON	MOM
Double pole		
SP45WW 00	ON	MOM

Shown with standard plunger









Washable snap-action pushbutton switches

THREADED BUSHING - SOLDER LUG **TERMINALS**



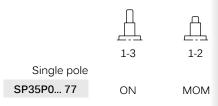
Single pole SP35S0... 77

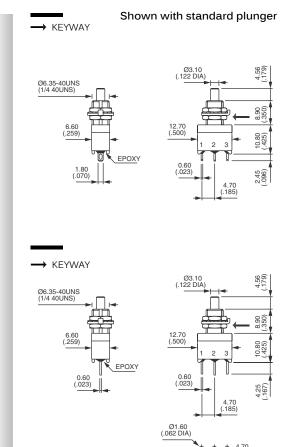
ON

MOM

THREADED BUSHING - STRAIGHT PC **TERMINALS**







CONTACT & TERMINAL MATERIALS

BASIC P/N

- Brass, gold plated (standard) 0
- 1

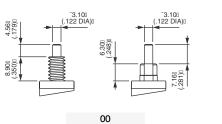
BASIC P/N

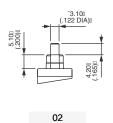
2 Silver, gold plated

PLUNGERS

00 Standard plunger

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





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- 00 Standard model
- 01 UL marking for standard model
- 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 basic part numbers on previous page)

CAPS



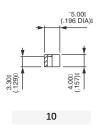
Blank	Without cap
10	P/N U2400
20	P/N U2510
30	P/N U2130
40	Standard - P/N U2900
50	Square - P/N U2340. Not available with plunger 02
70	Square - P/N U910
00	D/NI 12400 Nictional labels with all reserves 02

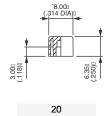
P/N U3400. Not available with plunger 02

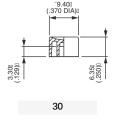
For cap colors, replace «0» with number :

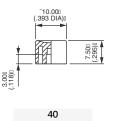
1	Blue
1/4	Dark blue
2	Black
3	Green
4	Grey
5	Yellow
6	Red
7	Ivory
7/1	White
9	Orange

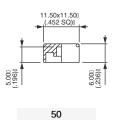
To order caps separately, use their P/N (U...) (for threaded bushing order only separately).

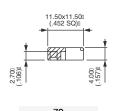


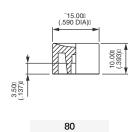












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DRESS NUT

For threaded bushing models only Dress nuts are to be ordered separately.

