

SP series

Washable snap-action pushbutton switches

Distinctive features and specifications

UG1410A



❑ Process sealed

- Secure assembly of the two case parts
- Internally sealed bushing
- Epoxy sealed terminals

❑ Process compatible (plain bushing models)

- Wave solderable
- Washable

B2

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - gold plated brass contacts : 100mA 30VDC
 - silver or gold plated silver contacts : 1A 30VDC
- 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

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

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 10N max.
- Operating temperature : -20°C to +85°C
- Storage temperature : -40°C to +85°C
- Moisture :

The insulating materials employed and the complete seal permit the switches to withstand a 56 days moisture test (IEC 68-2-3).
- Soldering - thermal shock (plain bushing models only) :

The switches are especially designed for flow soldering at 260°C during 5 seconds owing to high temperature polymer parts.
- Iron soldering (threaded bushing models) : 300°C max., 5 seconds max.
- Solderability : The switches are tested at 235°C according to IEC 68-2-20 after accelerated aging.

AGENCY APPROVAL



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

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

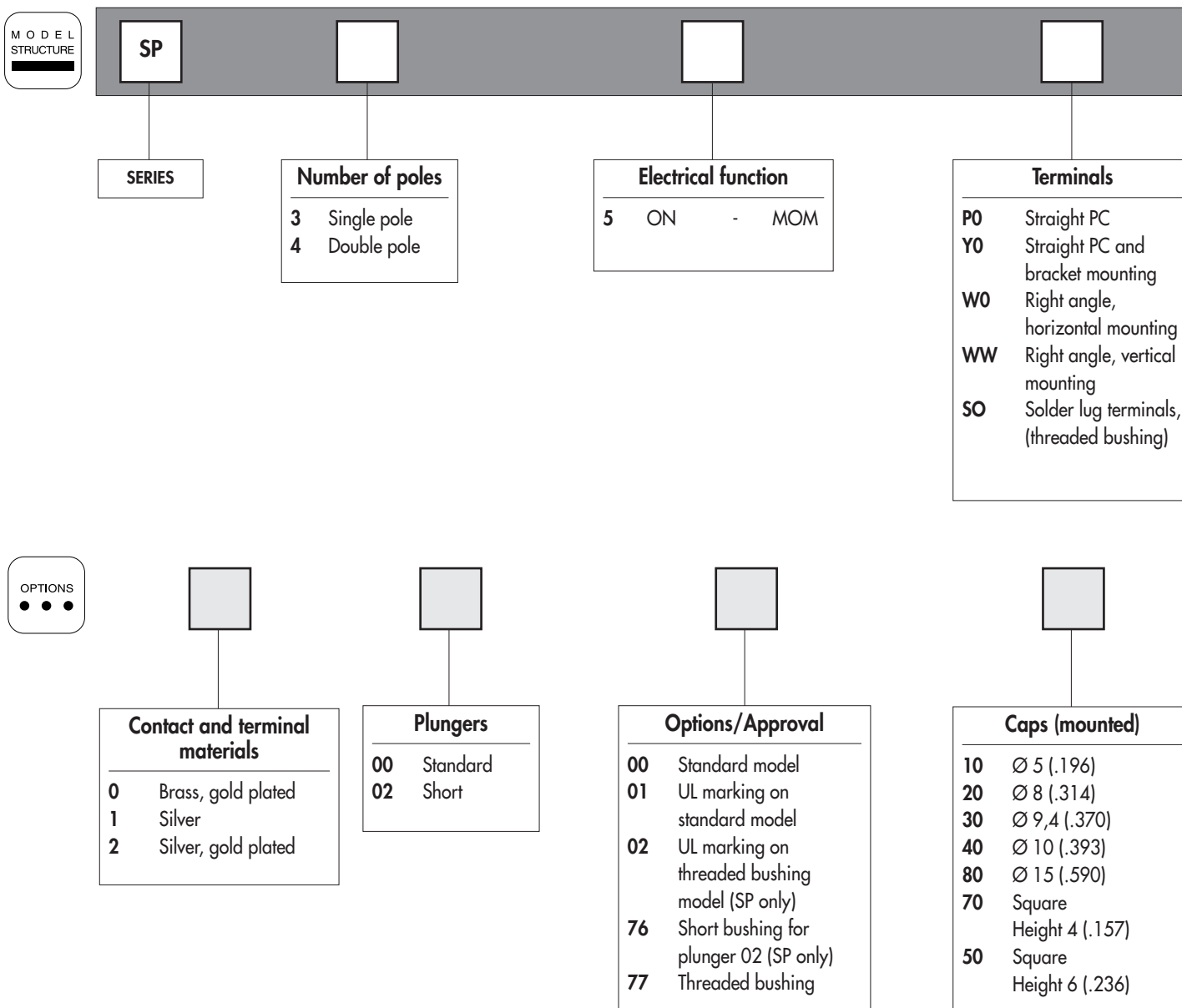
The company reserves the right to change specifications without notice.

SP series

Washable snap-action pushbutton switches

Overview

B2



ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
 - options in the same order as above
- Specifications are on previous page.

Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.



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 section I.

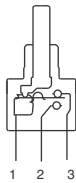
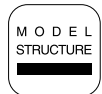


Packaging unit : 25 or 50 pieces depending on model.

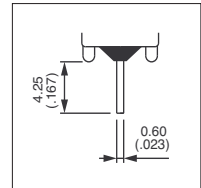
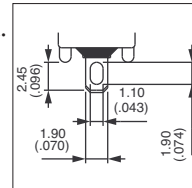
SP series

Washable snap-action pushbutton switches

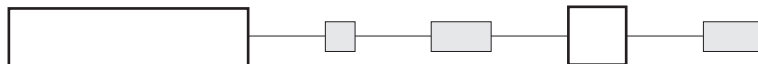
Plain or threaded bushing



- Solder lug, straight PC or right angle terminals
- Features of threaded bushing models :
 - max. torque : 0,25 Nm (.18 Ft.lb)
 - iron soldering : 300°C max., 5 seconds max.
- 1 and 2 pole configurations



MODEL STRUCTURE



Shown with standard plunger

Plain bushing - straight PC terminals



Single pole

SP35P0... 00

Double pole

SP45P0... 00



1-3



1-2

ON

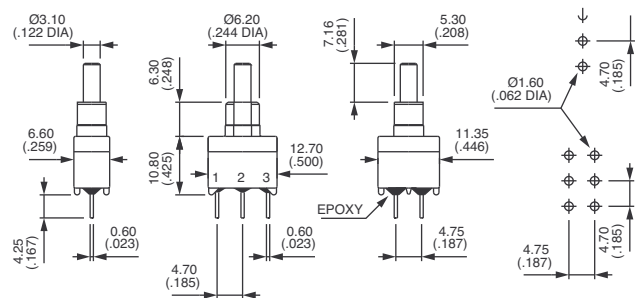
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MOM

ON

-

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Plain bushing - bracket mounting



Single pole

SP35Y0... 00

Double pole

SP45Y0... 00



1-3



1-2

ON

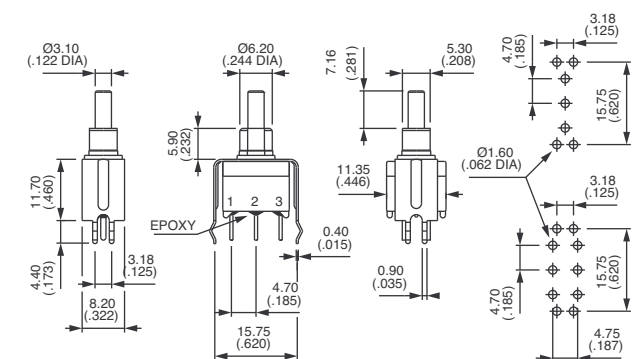
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MOM

ON

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Plain bushing - right angle terminals - horizontal



Single pole

SP35W0... 00

Double pole

SP45W0... 00



1-3



1-2

ON

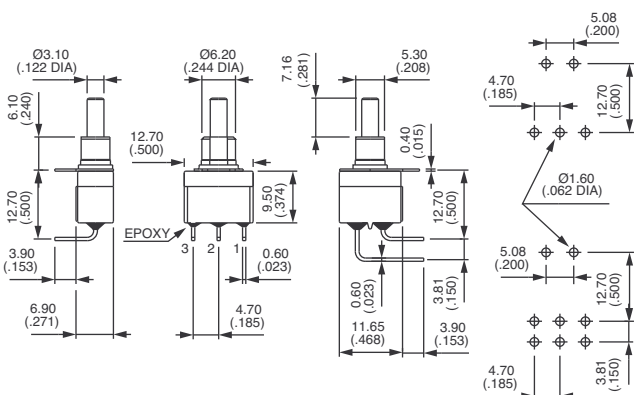
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MOM

ON

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MODEL
STRUCTURE

SP series

Washable snap-action pushbutton switches

Plain or threaded bushing

Shown with standard plunger

Plain bushing - right angle terminals - vertical



Single pole

SP35WW... 00

Double pole

SP45WW... 00



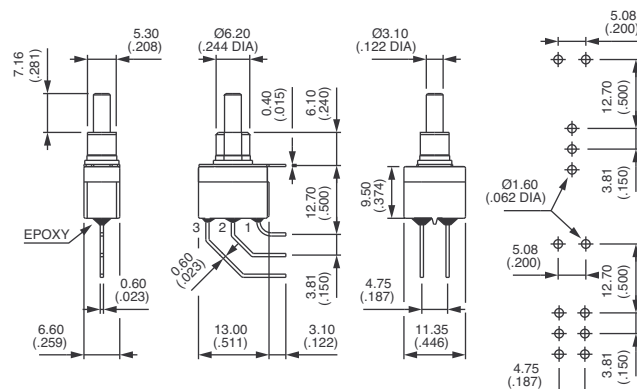
1-3



1-2

ON - MOM

ON - MOM



Threaded bushing - solder lug terminals

→ Keyway



Single pole

SP35S0... 77

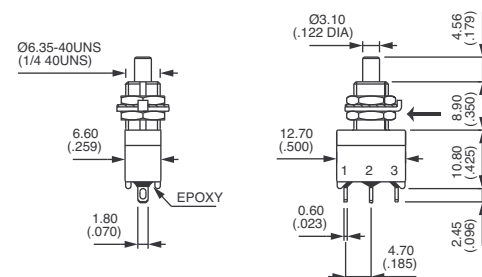


1-3



1-2

ON - MOM



Threaded bushing - straight PC terminals

→ Keyway



Single pole

SP35P0... 77

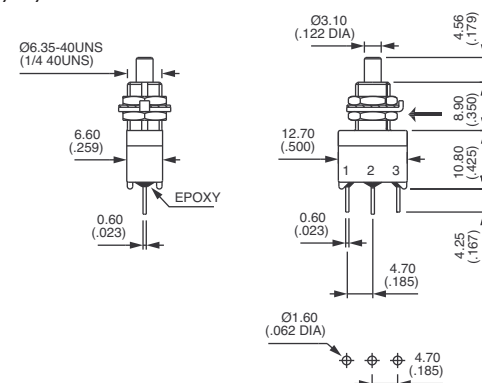


1-3

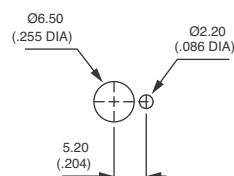


1-2

ON - MOM



PANEL CUT-OUT

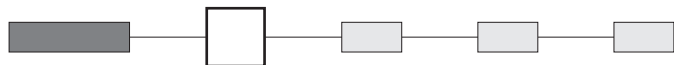


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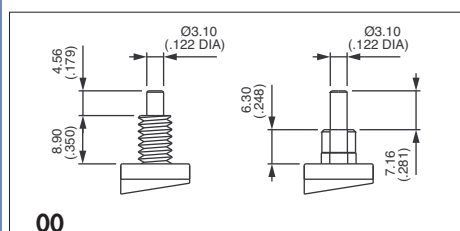
 OPTIONS
 ● ● ●

CONTACT AND TERMINAL MATERIALS



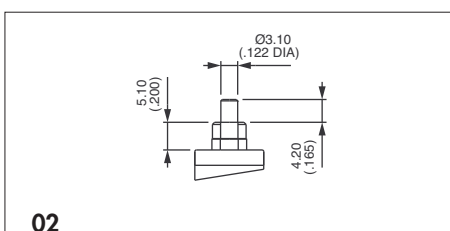
- 0 Brass, gold plated
- 1 Silver
- 2 Silver, gold plated

PLUNGERS



00

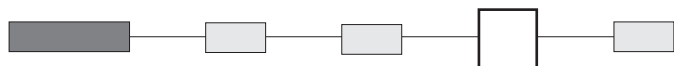
Standard plunger



02

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

OPTIONS / AGENCY APPROVAL



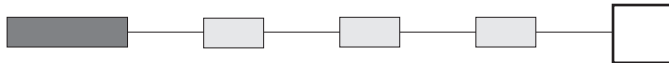
- 00 Standard model
- 01 UL marking for standard model
- 02 UL marking for threaded bushing model (single pole models only)
- 76 Short plain bushing for 02 plunger (single pole models only)
- 77 Threaded bushing
(included in model numbers on previous page)



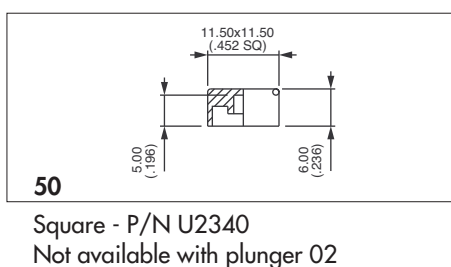
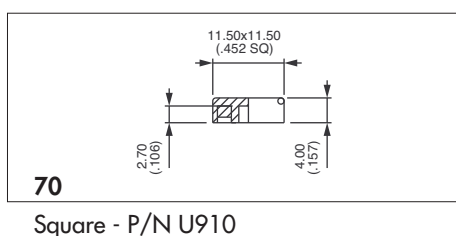
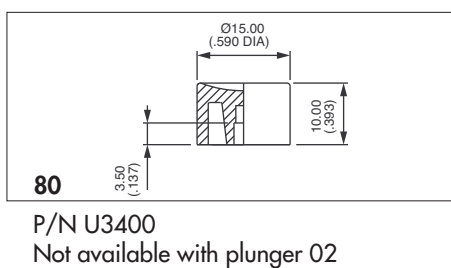
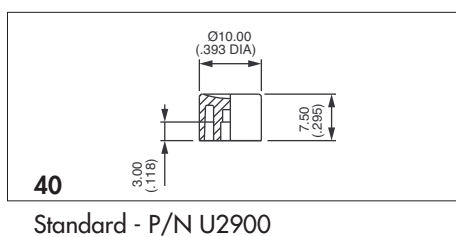
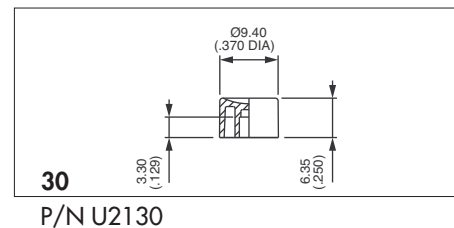
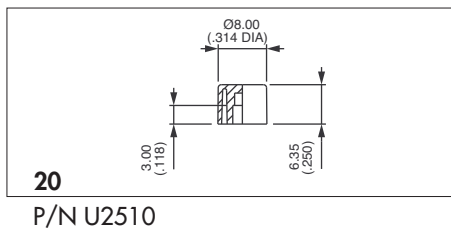
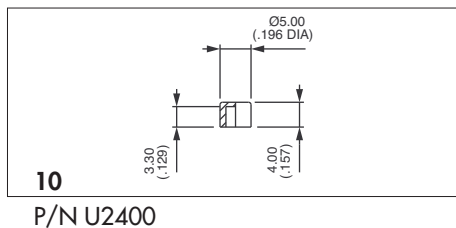
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CAPS



Blank Without cap



Cap colours

Replace last "0" by number

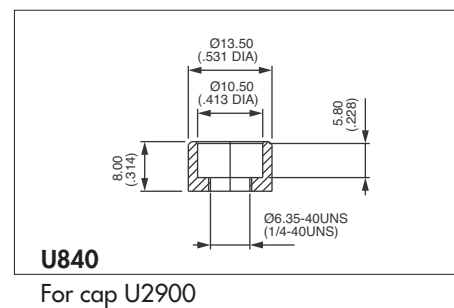
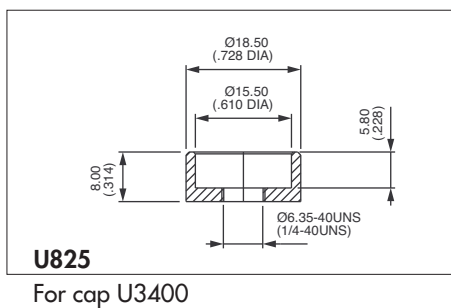
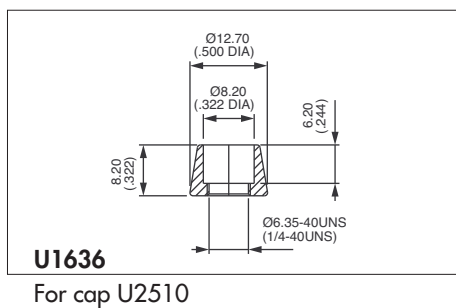
1	blue
1/4	dark blue
2	black
3	green
4	grey
5	yellow
6	red
7	ivory
7/1	white
9	orange

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

DRESS NUTS

Chrome plated

For threaded bushing models only.



Dress nuts are to be ordered separately.