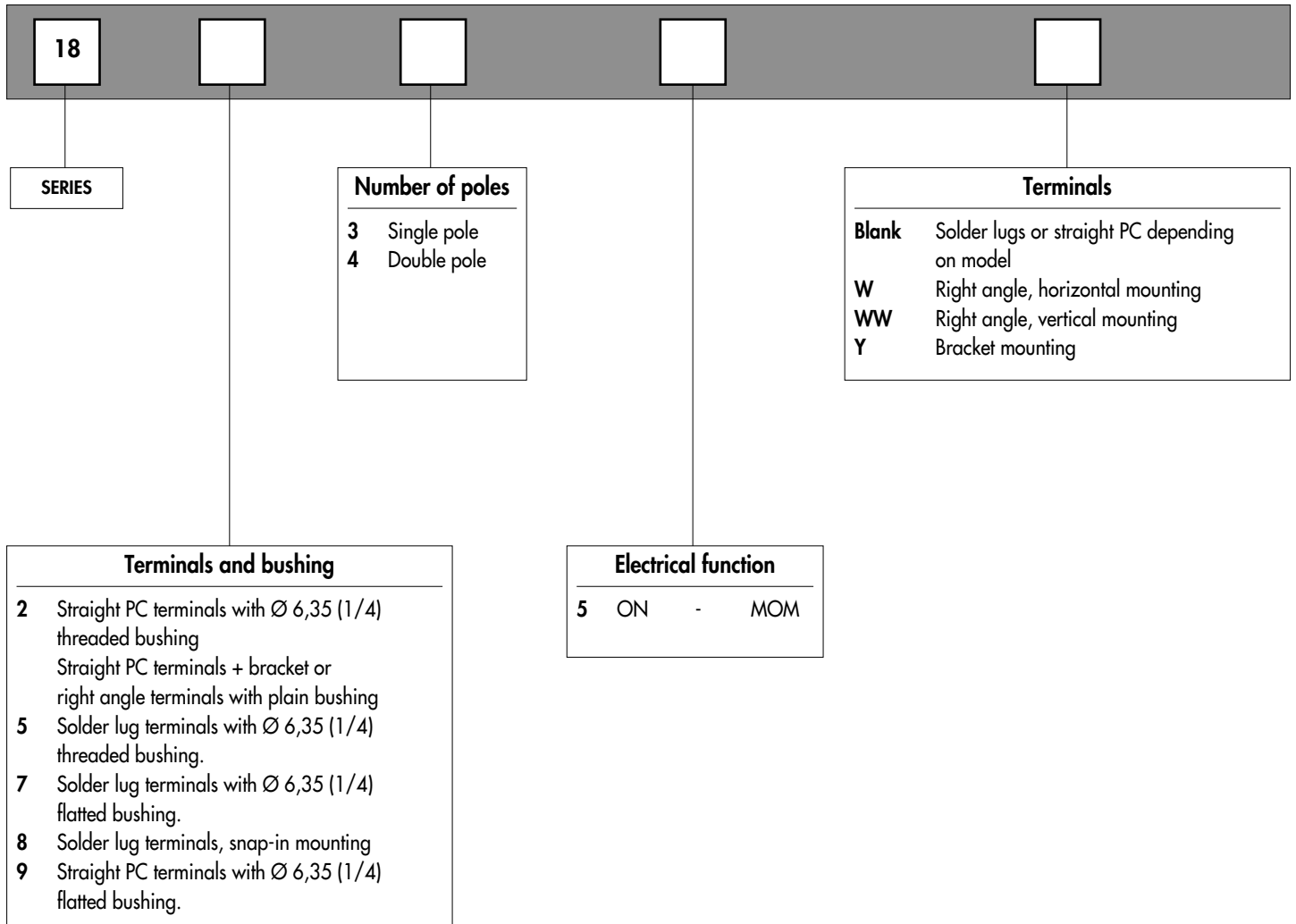


18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

Overview

MODEL
STRUCTURE



ABOUT THIS SERIES

On the following pages, you will find successively :

- specifications
- model structure of switches
- options in the same order as in above chart

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



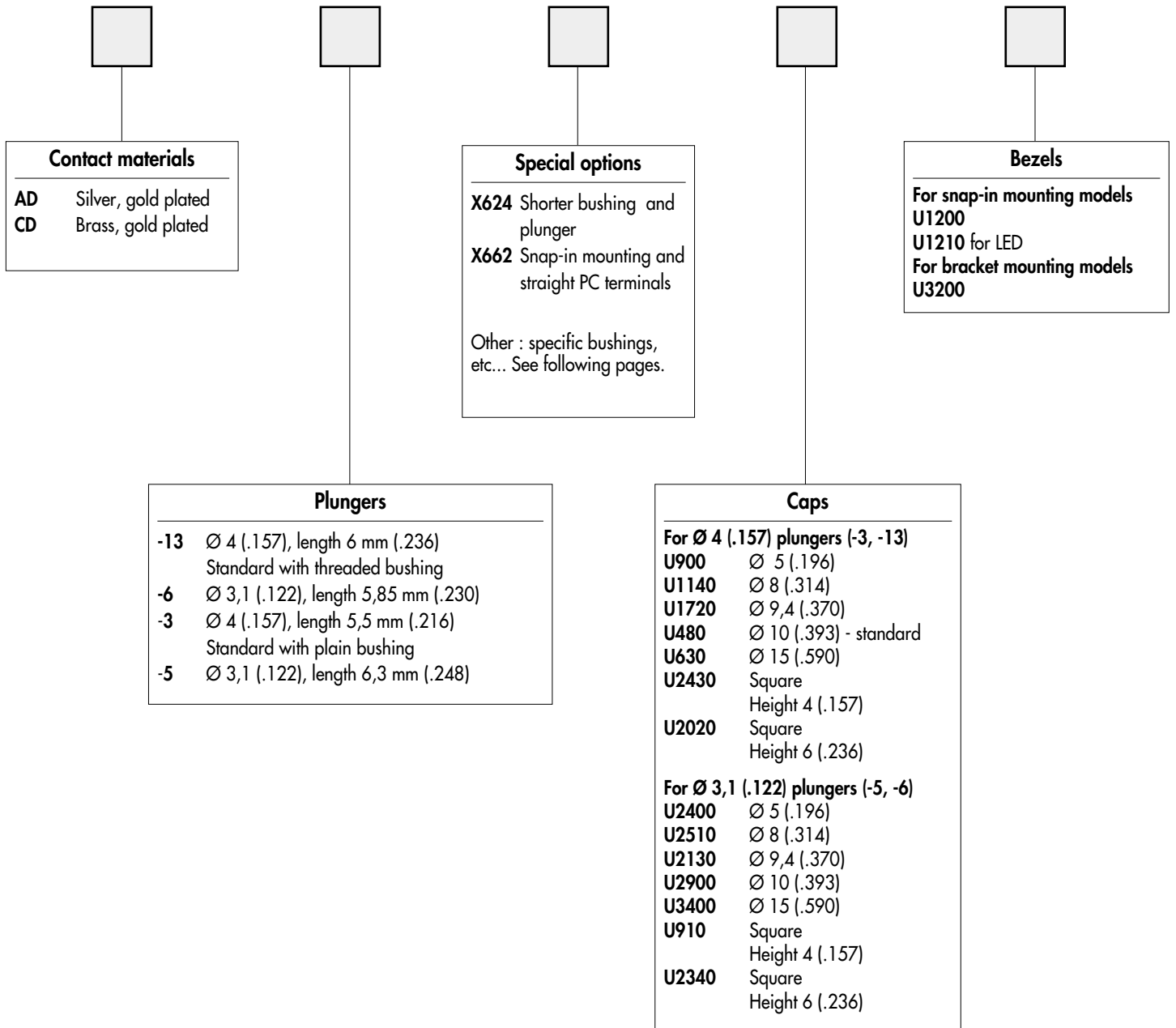
NOTICE : please note that not all combinations of above numbers are available.
Refer to the following pages for further information.

18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

Overview

OPTIONS



Sealing boots are available to protect the switches against dust and water. They are presented in section N.



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 N.



Packaging unit : 25 pieces for W, WW double pole and 18800 models
50 pieces for other models.

18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

Specifications

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - gold plated brass contacts : 100mA - 30VDC
 - gold plated silver contacts : 1A 120VAC, 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 at full load

MATERIALS

- Case : PBT
- Actuator : polyamide, glass filled
- Bushing : brass, nickel plated
- Housing : stainless steel
- Bracket : tin plated steel
- Contacts
 - AD** : silver, gold plated
 - CD** : brass, gold plated
- Terminals seal : epoxy

GENERAL SPECIFICATIONS

- Total travel : 0,5 mm (.019)
- Torque : 1,25 Nm (.922 Ft.lb) max. applied to nut
- Operating temperature : -30°C to +65°C

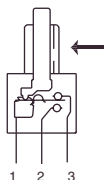
18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

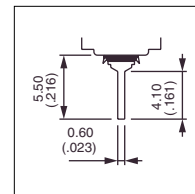
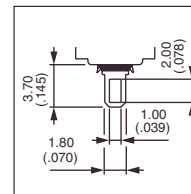
Threaded bushing Ø 6,35 (1/4) : 18500 - 18700 - 18200

MODEL
STRUCTURE

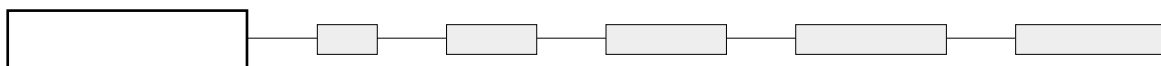
→ Keyway



- Solder lug or straight PC terminals
- Epoxy sealed terminals standard



MODEL
STRUCTURE



Shown with standard plunger (-13)

Solder lug terminals : 18500

→ Keyway



Single pole
18535

Double pole
18545



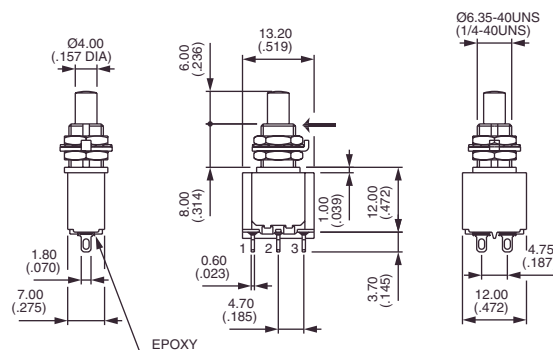
1-3

ON



1-2

MOM



Flatted bushing - solder lug terminals : 18700

→ Flat



Single pole
18735

Double pole
18745



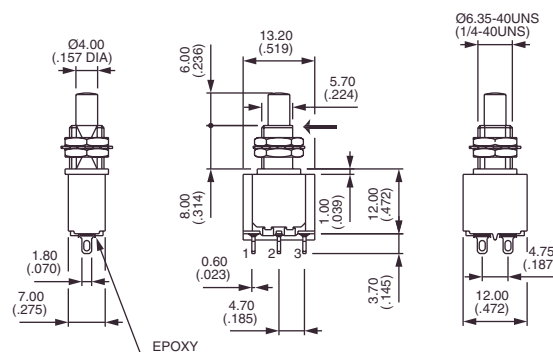
1-3

ON



1-2

MOM



Straight PC terminals : 18200

→ Keyway



Single pole
18235

Double pole
18245



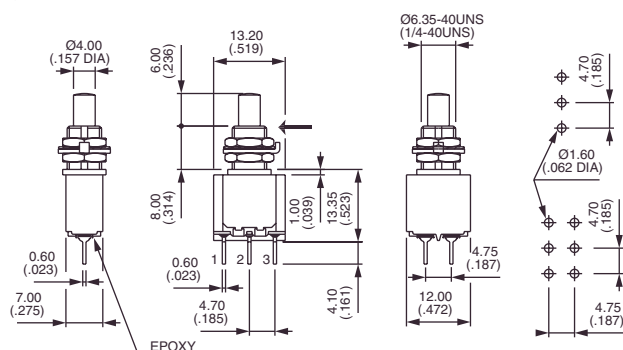
1-3

ON

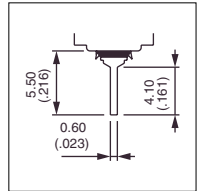


1-2

MOM



MODEL
STRUCTURE



Shown with standard plunger (-3)

PIN A

Side View Dimensions:
 Total Length: 13.00 (.511)
 Head Diameter: Ø4.00 (.157 DIA)
 Head Height: 5.50 (.216)
 Shank Diameter: Ø6.25 (.246 DIA)
 Shank Length: 7.00 (.275)
 Pin Diameter: Ø1.60 (.062 DIA)
 Pin Spacing: 15.75 (.620)
 Pin Length: 4.70 (.185)
 Pin Position: 3.18 (.125) from centerline

PIN B

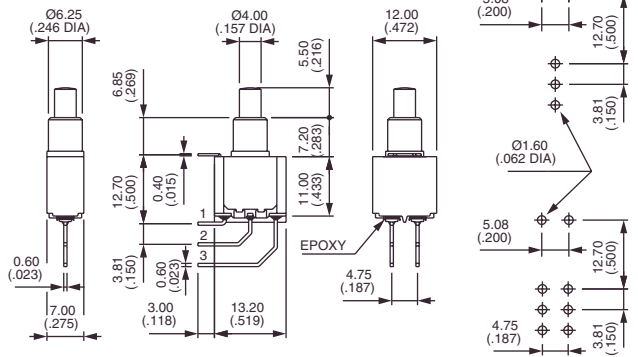
Side View Dimensions:
 Total Length: 13.00 (.511)
 Head Diameter: Ø4.00 (.157 DIA)
 Head Height: 5.50 (.216)
 Shank Diameter: Ø6.25 (.246 DIA)
 Shank Length: 7.00 (.275)
 Pin Diameter: Ø1.60 (.062 DIA)
 Pin Spacing: 15.75 (.620)
 Pin Length: 4.70 (.185)
 Pin Position: 3.18 (.125) from centerline

PIN C

Side View Dimensions:
 Total Length: 13.00 (.511)
 Head Diameter: Ø4.00 (.157 DIA)
 Head Height: 5.50 (.216)
 Shank Diameter: Ø6.25 (.246 DIA)
 Shank Length: 7.00 (.275)
 Pin Diameter: Ø1.60 (.062 DIA)
 Pin Spacing: 15.75 (.620)
 Pin Length: 4.70 (.185)
 Pin Position: 3.18 (.125) from centerline

Technical drawing of a three-hole mounting bracket showing three views: front, side, and top. The front view shows a bracket with a total height of 13.00 (.311) and a base width of 4.70 (.185). The side view shows a bracket with a total height of 15.75 (.620) and a base width of 0.40 (.015). The top view shows a bracket with a total width of 12.00 (.472) and a base width of 4.75 (.187). Dimensions are given in inches and millimeters.

● ● ●



18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

OPTIONS



SPECIAL OPTIONS



X624 Straight PC terminals - bracket mounting - with shorter bushing and plunger

Single pole

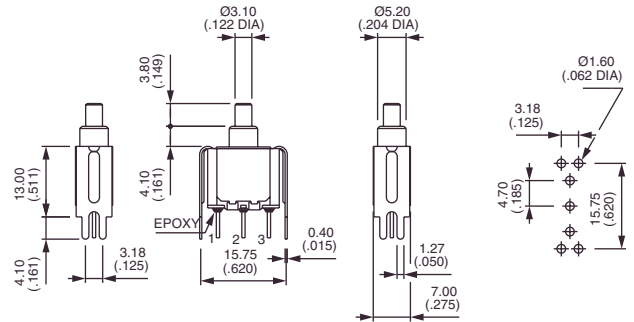
18235Y -2X624



ON



MOM



Double pole

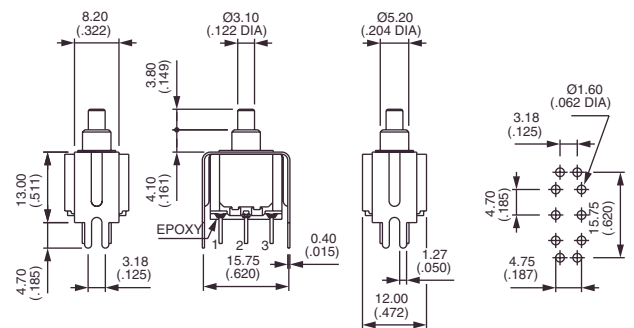
18245Y -2X624



ON



MOM



X662 Snap-in mounting - straight PC terminals

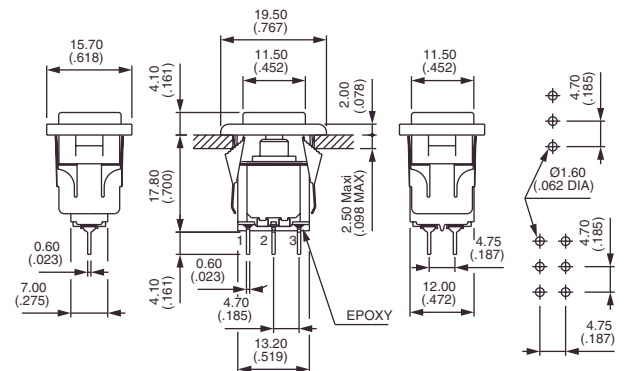
Single pole
18835 X662



ON



MOM



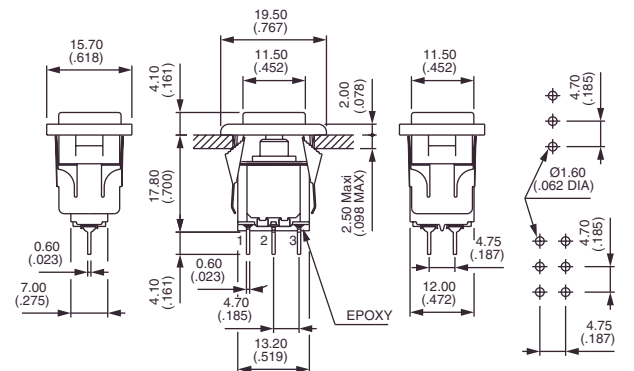
Double pole
18845 X662



ON



MOM



18000 SERIES
SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES



SPECIAL OPTIONS (continued)



D

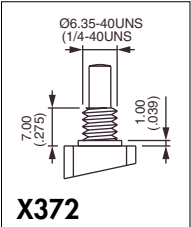
X371 Plain bushing Ø 6,25 mm (.246) (instead of standard threaded bushing).

X372 Shorter threaded bushing Ø 6,35 (1/4). Height 7 mm (.274).

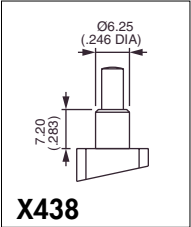
X386 Threaded bushing Ø 6,35 mm (1/4) to replace plain bushing on models W - WW and Y.

X438 Plain bushing Ø 6,25 mm (.246). Height 7,2 mm (.283) - without shoulder.

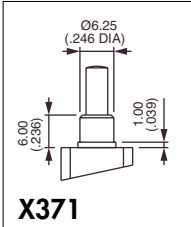
F Tin dipped terminals (for PC terminals only)



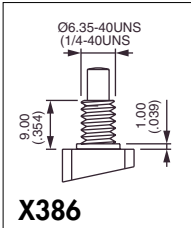
X372



X438



X371



X386

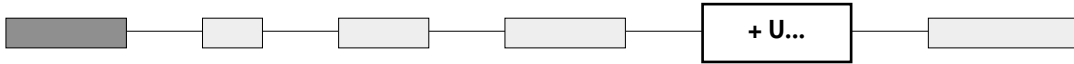
18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

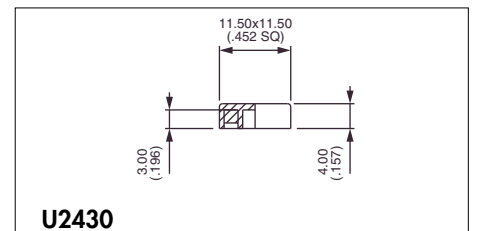
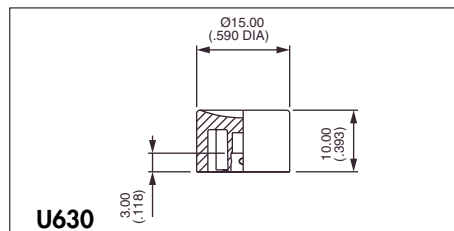
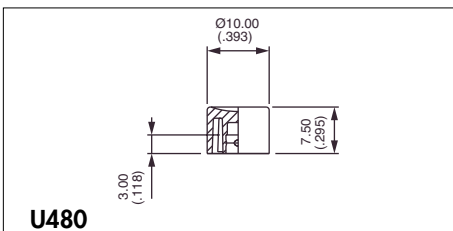
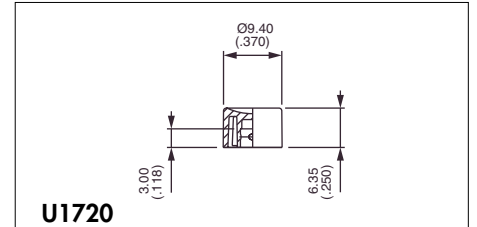
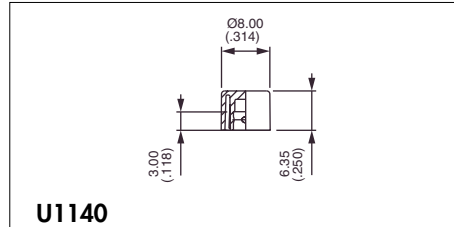
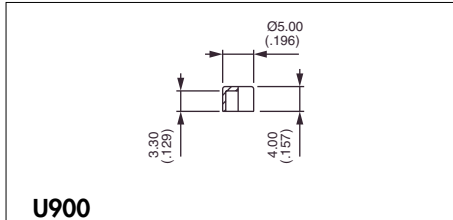
OPTIONS



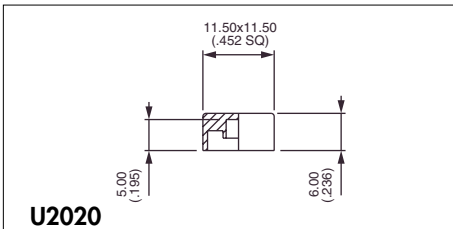
CAPS



Caps for Ø 4 (.157) plungers (-13, -3)

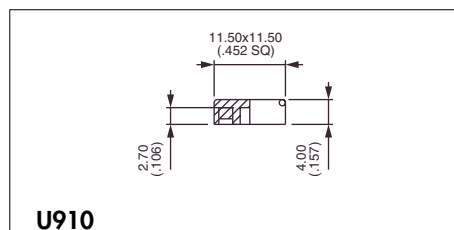
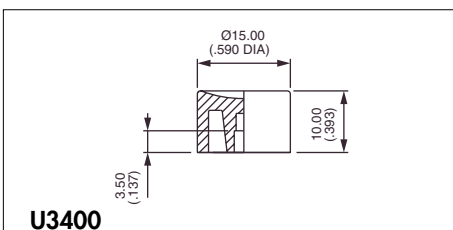
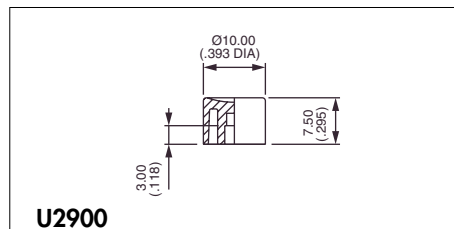
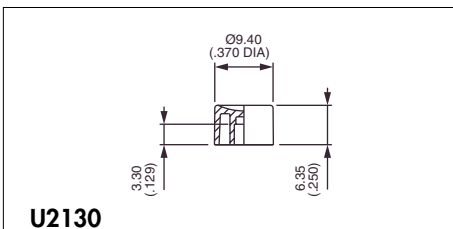
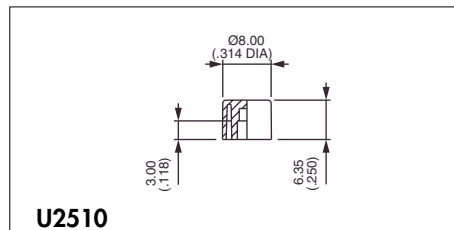
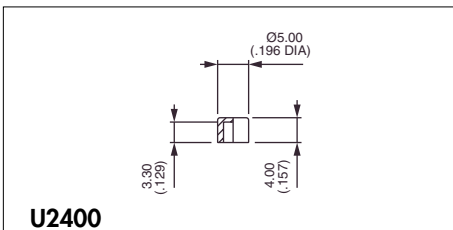


Square

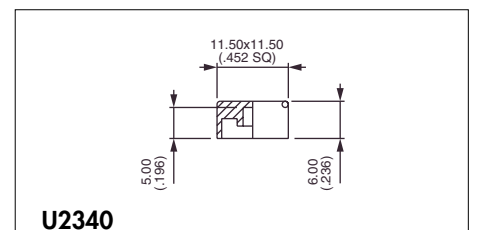


Square

Caps for Ø 3,1 (.122) plungers (-5, -6)



Square



Square

Cap colours

Replace last "0" by number

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

18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

OPTIONS

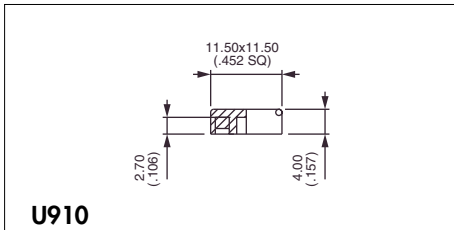


CAPS (continued)



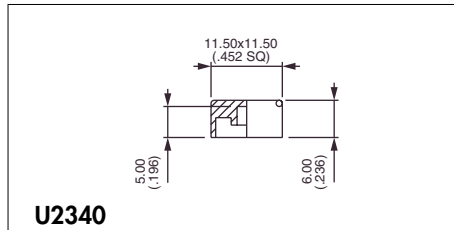
Caps for 18800 and 18800X662 models

D



U910

Square



U2340

Square

Cap colours

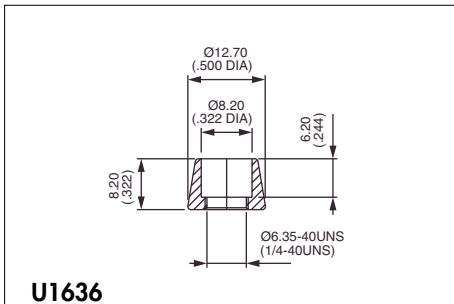
Replace "0" by number

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

DRESS NUTS

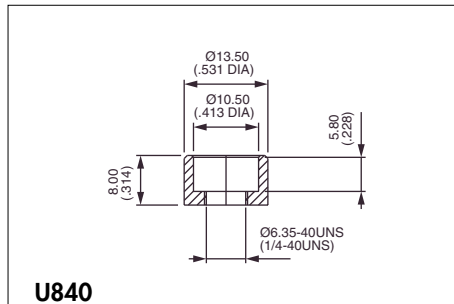
For models with threaded bushing (18500 - 18700 - 18200 - 18900)

Chrome plated



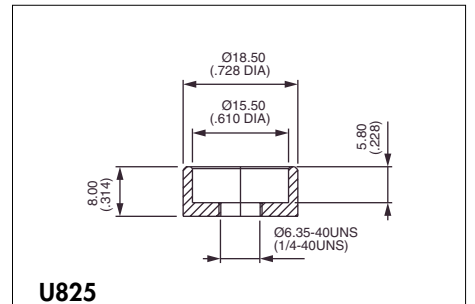
U1636

For caps U1140 and U2510



U840

For cap U480 and U2900



U825

For caps U630 and U3400

Dress nuts are to be ordered separately.

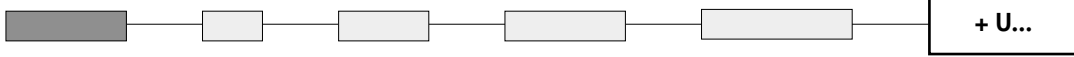
18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

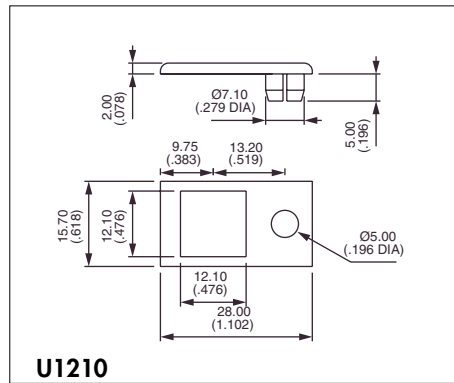
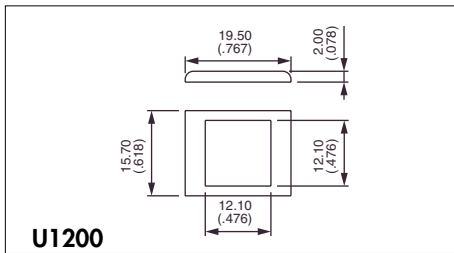
OPTIONS



BEZELS



For snap-in models (18800 - 18800X662)



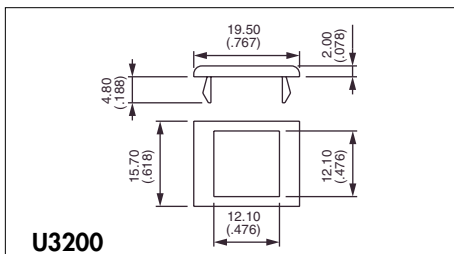
For LED Ø 5 - not supplied

Bezel colours

Replace last "0" by number

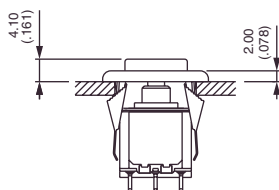
- 1 blue
- 2 black
- 3 green
- 4 grey
- 5 yellow
- 6 red
- 7 ivory
- 7/1 white
- 9 orange

For bracket mounting models (18200Y and 18200YX624)

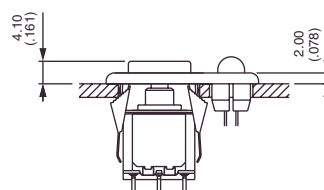


STANDARD PANEL MOUNTING

Panel thickness with bezel : 1 mm (.039) to 2,5 mm (.098)



18800 + U910 + U1200



18800 + U910 + U1210

18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

For high currents

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
3A 250VAC - 6A 125VAC - 7A 30VDC
- Initial contact resistance : 20 m Ω max. at 0,1A 3VDC
- Insulation resistance : 200.000 M Ω min. between terminals and frame
- Dielectric strength : 1.500 Vrms 50 Hz min.
- Electrical life : 60.000 cycles at full load

GENERAL SPECIFICATIONS

- Travel : 0,90 mm (.035) approx.
- Operating temperature : -30°C to +85°C

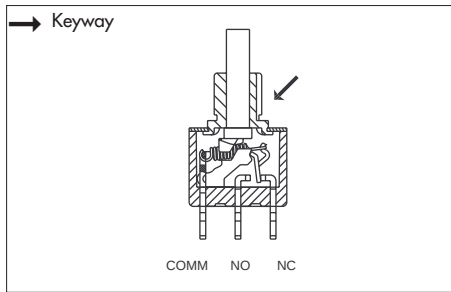
MATERIALS

- Case : diallylphthalate (DAP)
- Actuator : glass filled polyester
- Bushing : brass, nickel plated
- Housing : stainless steel
- Contacts : silver
- Terminal seal : epoxy

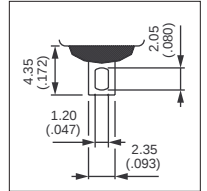
18000 SERIES

SNAP-ACTION MOMENTARY PUSHBUTTON SWITCHES

For high currents



- Threaded bushing $\varnothing 6,35$ (1/4)
- Solder lug terminals
- Epoxy sealed terminals



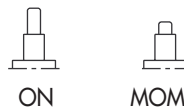
MODEL STRUCTURE



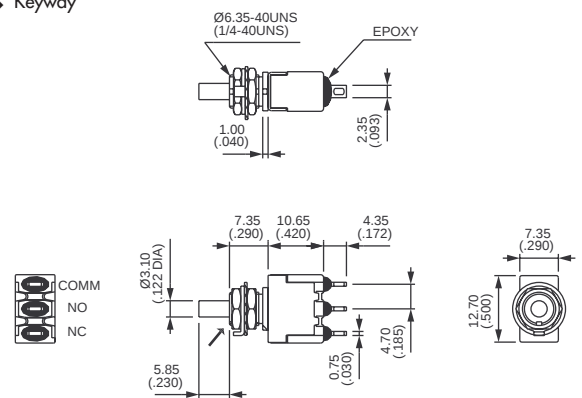
Single pole



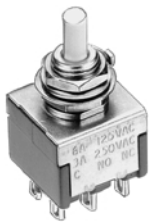
18635A



→ Keyway



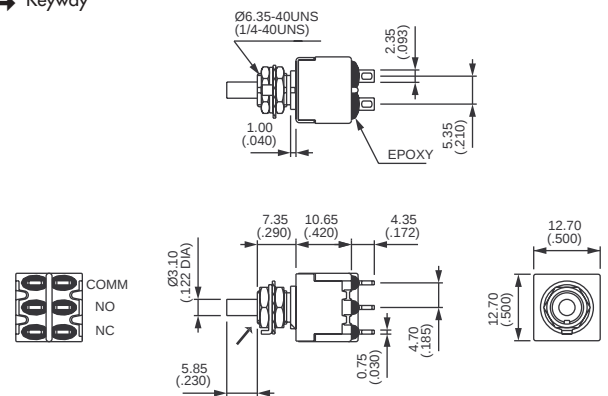
Double pole



18645A



→ Keyway



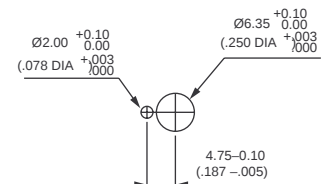
CAPS



Round	
U2400	$\varnothing 5$ (.196)
U2510	$\varnothing 8$ (.314)
U2130	$\varnothing 9,4$ (.370)
U2900	$\varnothing 10$ (.393)
U3400	$\varnothing 15$ (.590)

Square	
U910	Height 4 (.157)
U2340	Height 6 (.236)

PANEL CUT-OUT



For cap dimensions, see "Caps for $\varnothing 3,1$ (.122) plungers" on the preceding pages.