

# 18000 series

## Snap-action momentary pushbutton switches

*Distinctive features and specifications*

UG1410A



- ☐ Panel and PC mount models
- ☐ Snap-in panel mounting version
- ☐ Tactile feedback

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - gold plated brass contacts : 100mA - 30VDC
  - 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 at full load

Models for high currents : see 18635A and 18645A at the end of the series.

### 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
- Terminal 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
- Soldering : 300°C, 3 sec. max.

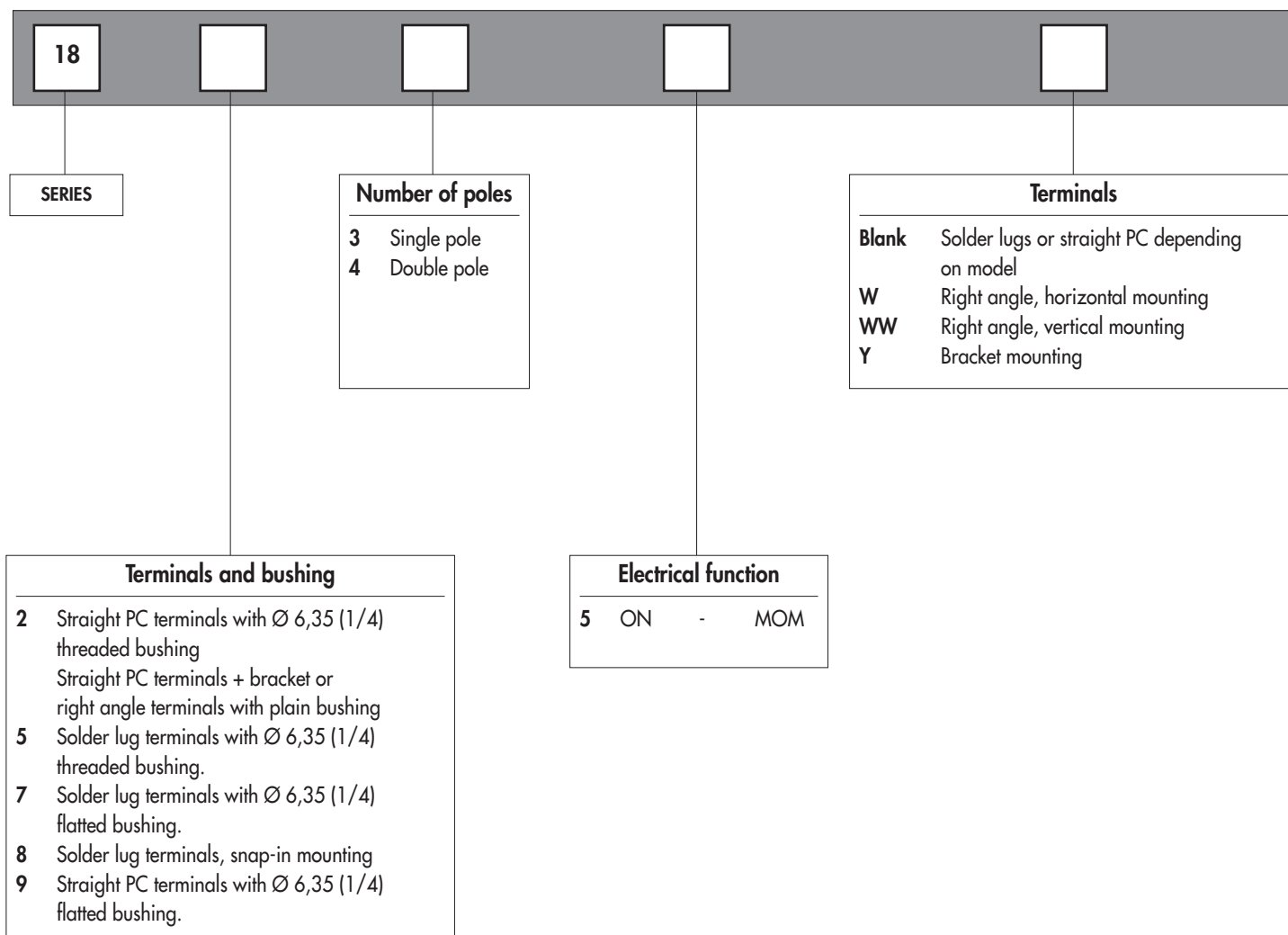
The company reserves the right to change specifications without notice.

# 18000 series

## Snap-action momentary pushbutton switches

### Overview

MODEL  
STRUCTURE



#### ABOUT THIS SERIES

On the following pages, you will find successively :

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

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



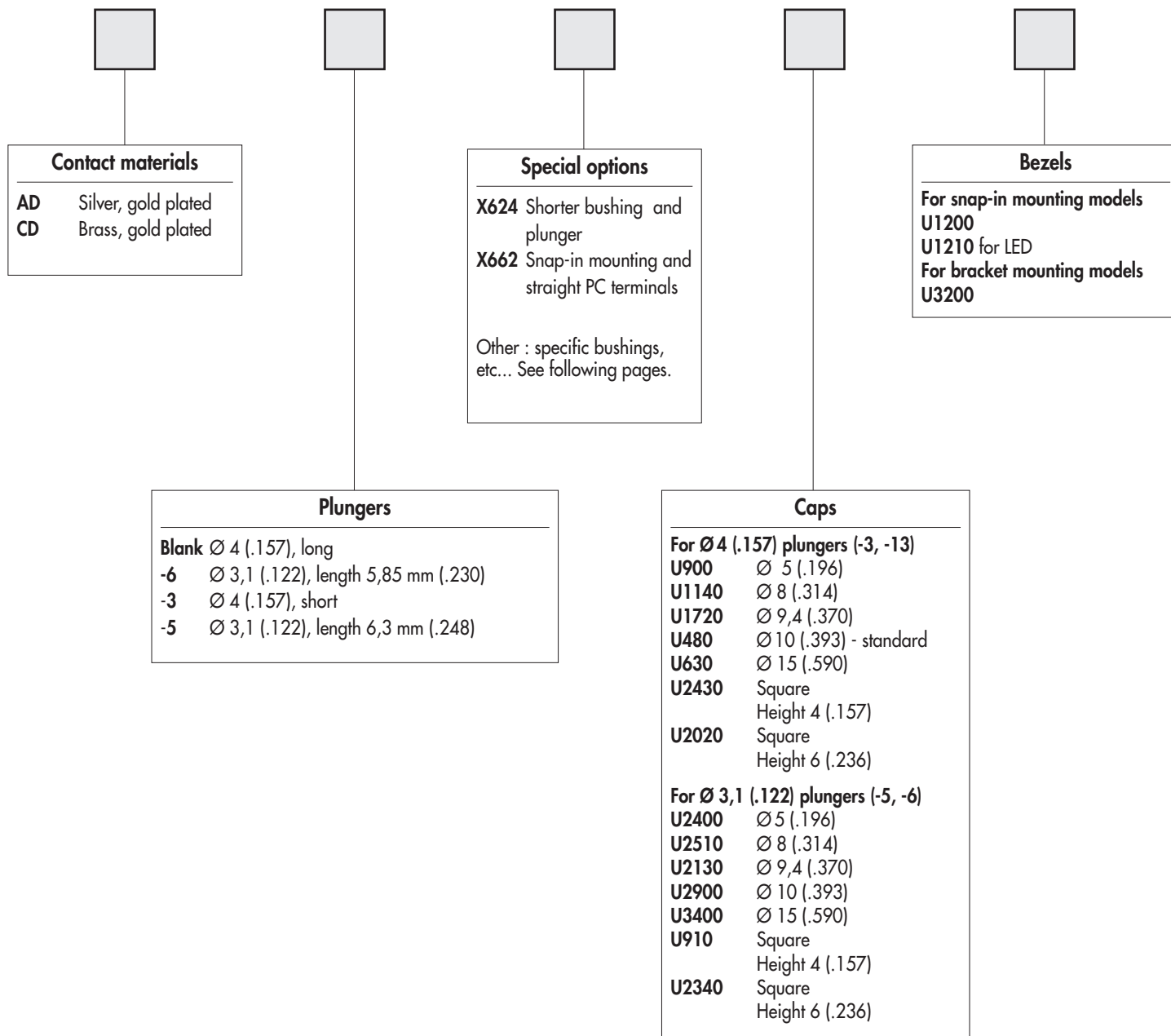
**NOTICE** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.



# 18000 series

Snap-action momentary pushbutton switches

Overview



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



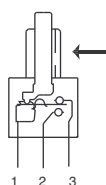
**Mounting accessories** : standard hardware supplied with all models with Ø 6,35 (1/4) threaded bushing :  
2 hex nuts 8 mm (.314) across flats, 1 locking ring and 1 lockwasher.  
Standard and special hardware available are presented in section I.



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

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

\_\_\_\_\_



- 

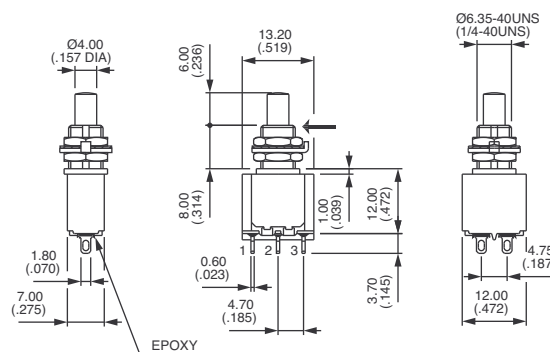
1-3

ON



1-2

MOM



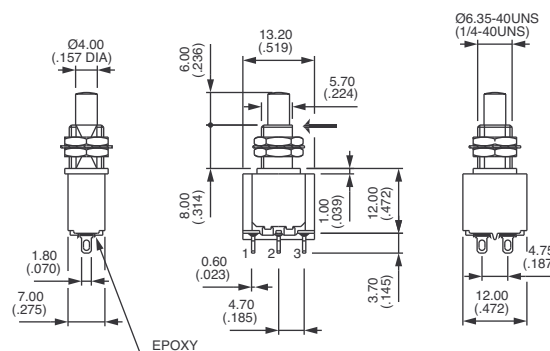
1-3

ON



1-2

MOM



A diagram showing a three-tiered pyramid structure. The base is a wide rectangle, the middle tier is a narrower rectangle, and the top tier is a narrow rectangle with rounded ends.

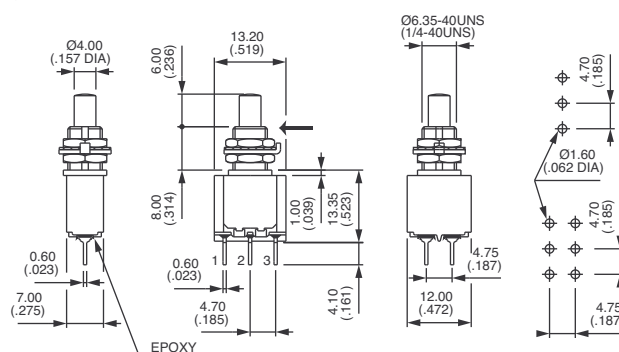
1-3

ON



1-2

MOM





# 18000 series

Snap-action momentary pushbutton switches

Threaded bushing Ø 6,35 (1/4) : 18900 - Snap-in mounting : 18800

## Flatted bushing - straight PC terminals : 18900

→ Flat



Single pole  
**18935**

Double pole  
**18945**



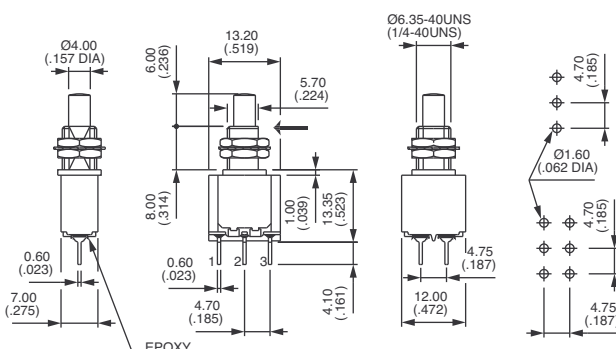
1-3

ON



1-2

MOM



## Snap-in mounting - solder lug terminals : 18800

Shown with cap U910 + U1200



Single pole  
**18835**

Double pole  
**18845**



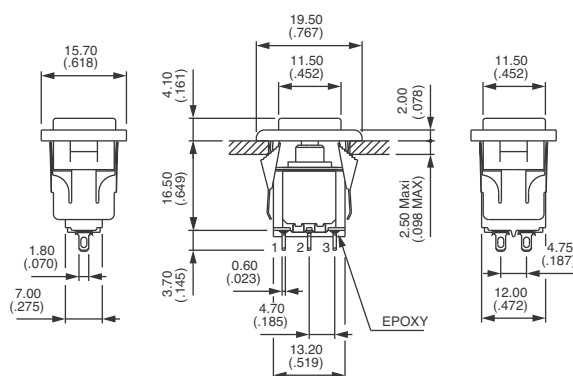
1-3

ON



1-2

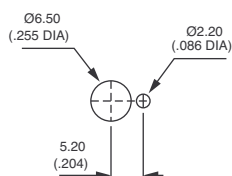
MOM



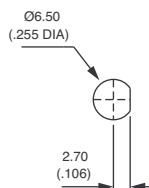
Available with straight PC terminals : see X662 under "Special options".

## PANEL CUT-OUT

**18500 - 18200**

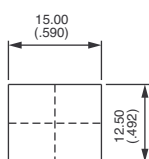


**18700 - 18900**

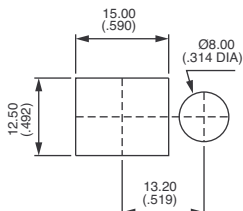


## PANEL CUT-OUT

**18800**

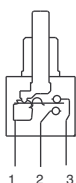


With bezel **U1200**



With bezel **U1210** for LED

*Plain bushing : 18200Y - 18200W - 18200WW*



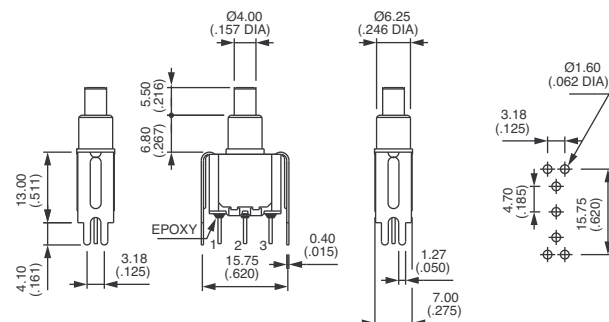
- 

\_\_\_\_\_

ON



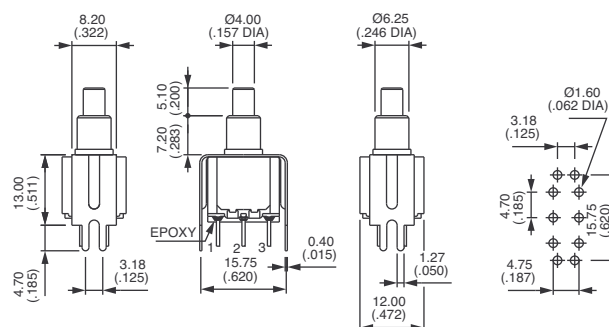
MOM



ON



MOM



ON



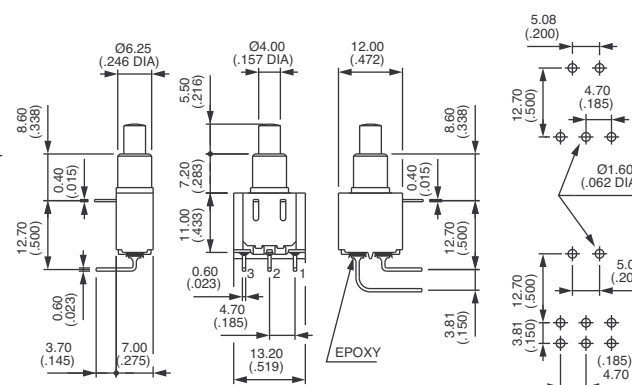
MOM

ON

ON

MOM

MOM





# 18000 series

Snap-action momentary pushbutton switches

## Right angle terminals - vertical : 18200WW



Single pole  
**18235WW**

Double pole  
**18245WW**



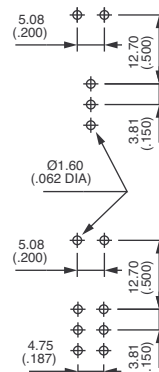
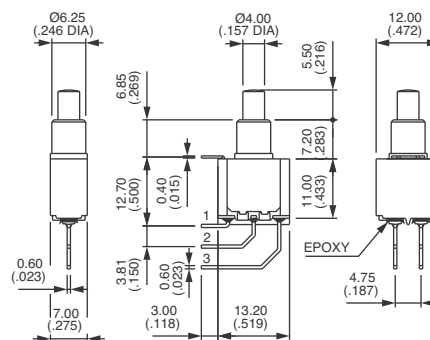
1-3

ON

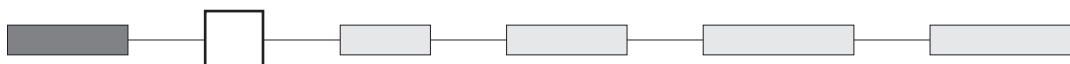


1-2

MOM

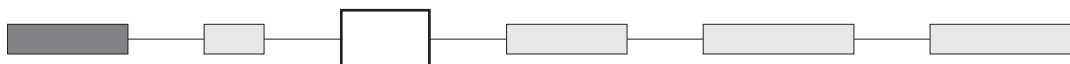


## CONTACT MATERIALS

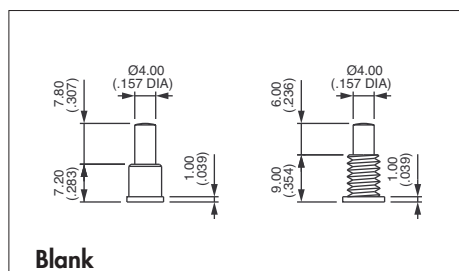


**AD** Silver, gold plated  
**CD** Brass, gold plated

## PLUNGERS

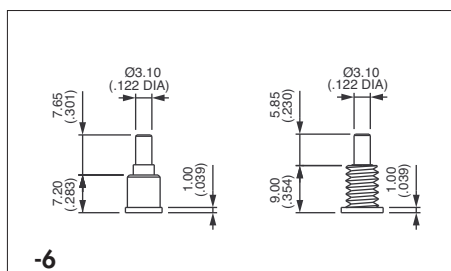


Dash compulsory before plunger code.



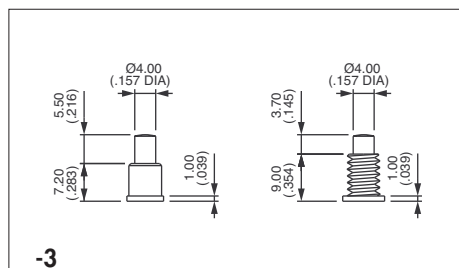
**Blank**

Ø 4 (.157) - long



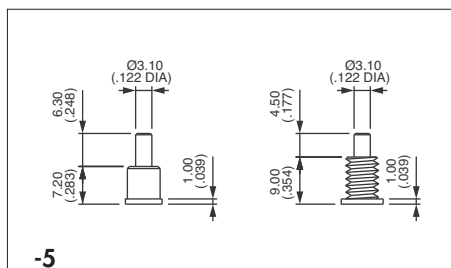
**-6**

Ø 3,1 (.122)



**-3**

Ø 4 (.157) - short



**-5**

Ø 3,1 (.122)

# 18000 series

Snap-action momentary pushbutton switches

OPTIONS



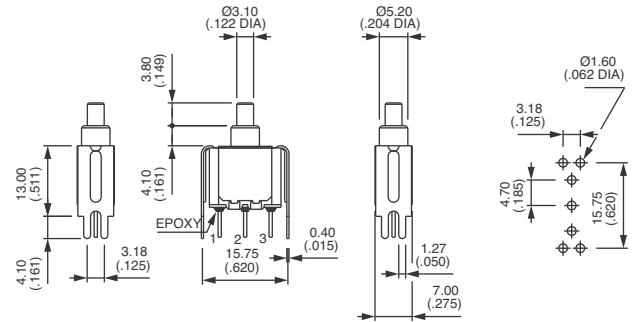
## SPECIAL OPTIONS



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

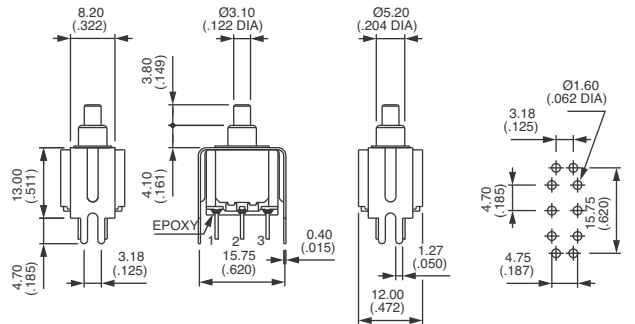
Single pole

18235Y -2X624



Double pole

18245Y -2X624

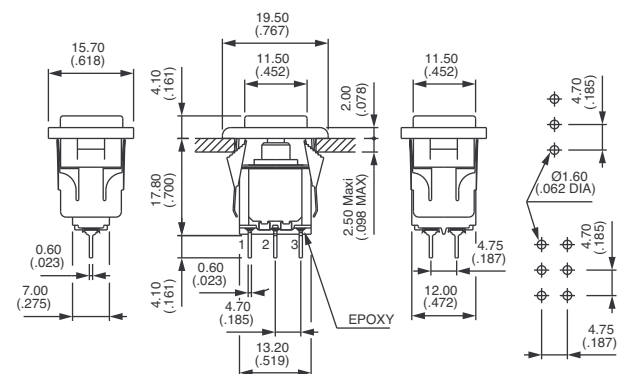


### X662 Snap-in mounting - straight PC terminals

Single pole  
18835 X662



Double pole  
18845 X662



B2

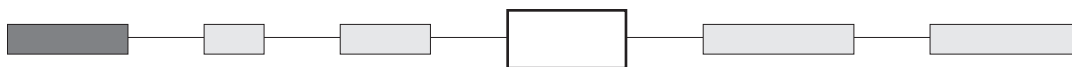




# 18000 series

Snap-action momentary pushbutton switches

## SPECIAL OPTIONS (continued)

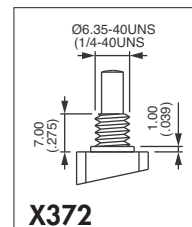


**X371** Plain bushing  $\varnothing 6,25$  mm (.246) (instead of standard threaded bushing).

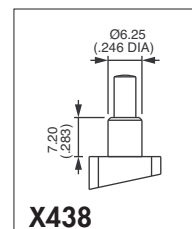
**X372** Shorter threaded bushing  $\varnothing 6,35$  (1/4). Height 7 mm (.274).

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

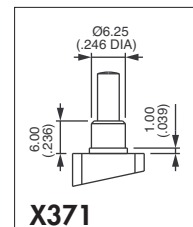
**X438** Plain bushing  $\varnothing 6,25$  mm (.246). Height 7,2 mm (.283) - without shoulder.



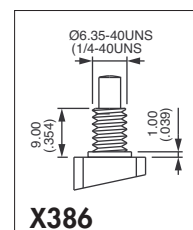
**X372**



**X438**

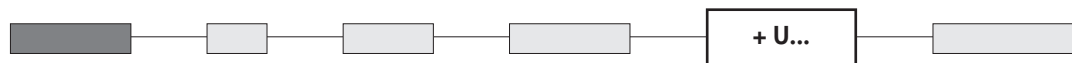


**X371**

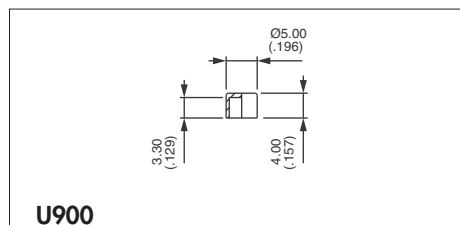


**X386**

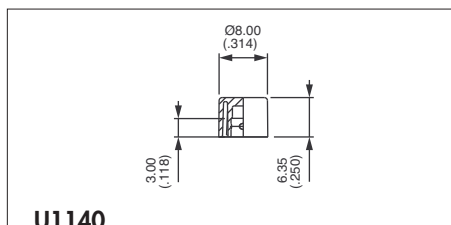
## CAPS



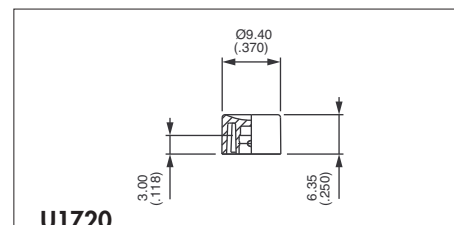
Caps for  $\varnothing 4$  (.157) plungers (-13, -3)



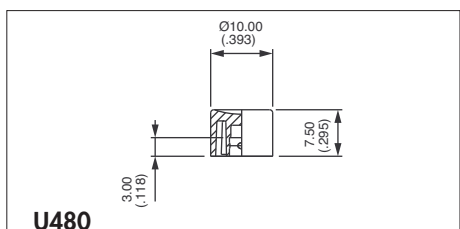
**U900**



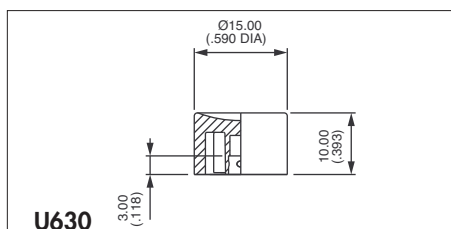
**U1140**



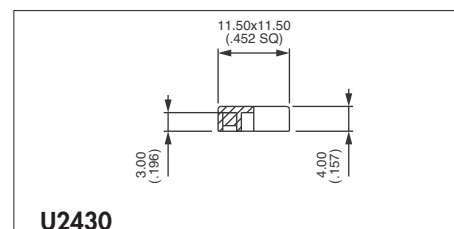
**U1720**



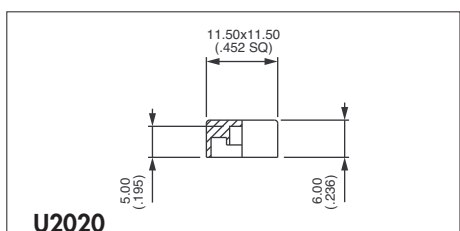
**U480**



**U630**



**U2430**



**U2020**

Square

### Cap colours

Replace last "0" by number

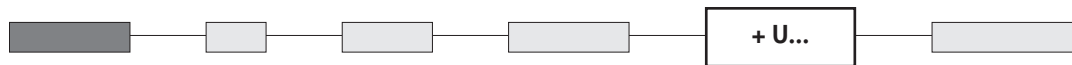
|     |           |     |        |
|-----|-----------|-----|--------|
| 1   | blue      | 5   | yellow |
| 1/4 | dark blue | 6   | red    |
| 2   | black     | 7   | ivory  |
| 3   | green     | 7/1 | white  |
| 4   | grey      | 9   | orange |

# 18000 series

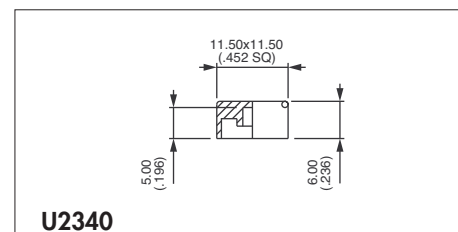
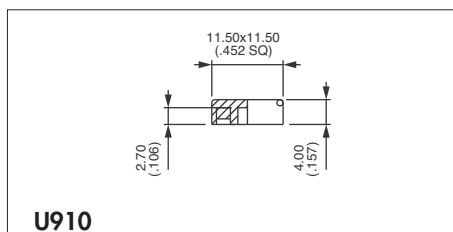
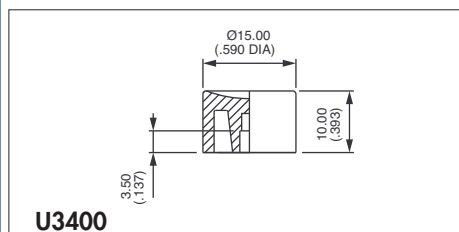
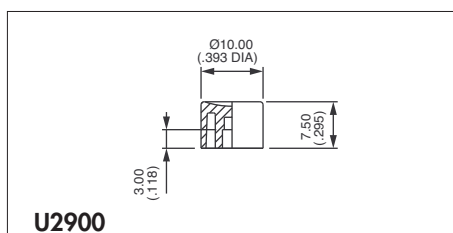
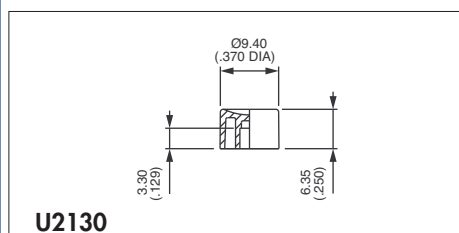
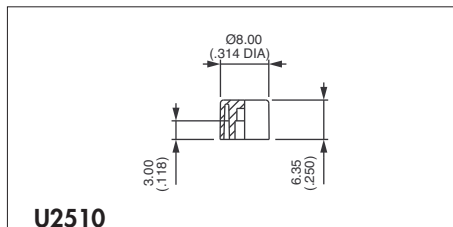
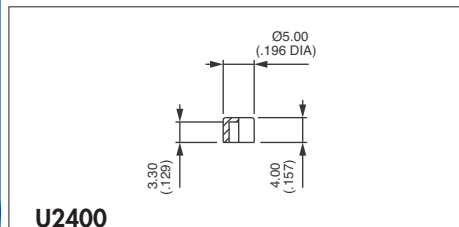
Snap-action momentary pushbutton switches

OPTIONS  
● ● ●

## CAPS (continued)

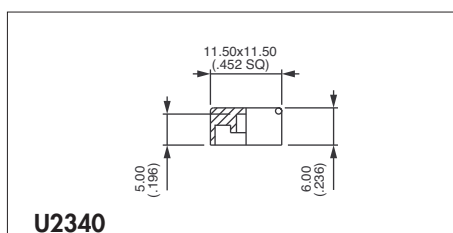
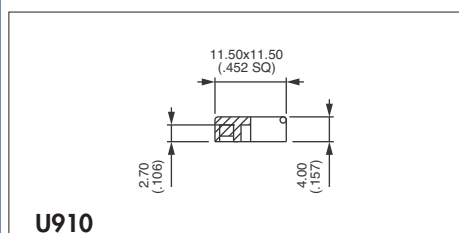


### Caps for Ø 3,1 (.122) plungers (-5, -6)



| Cap colours           |           |
|-----------------------|-----------|
| Replace "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    |

### Caps for 18800 and 18800X662 models





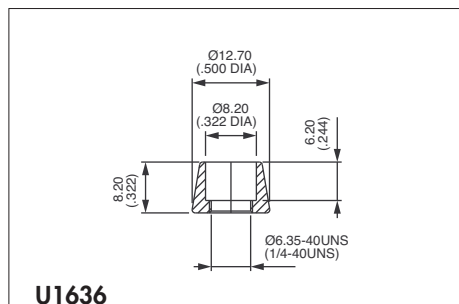
# 18000 series

Snap-action momentary pushbutton switches

## DRESS NUTS

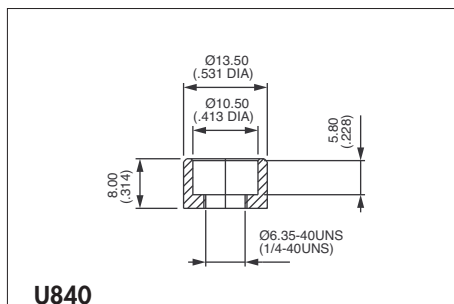
For models with threaded bushing (18500 - 18700 - 18200 - 18900)

Chrome plated - Order separately.



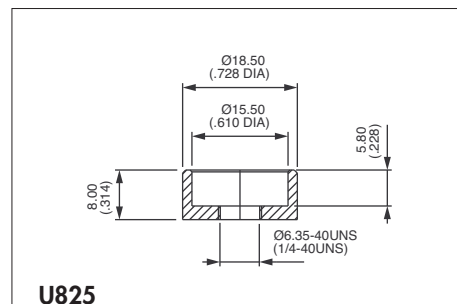
**U1636**

For caps U1140 and U2510



**U840**

For cap U480 and U2900



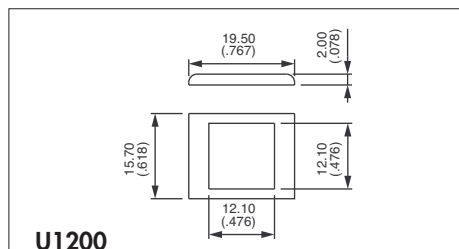
**U825**

For caps U630 and U3400

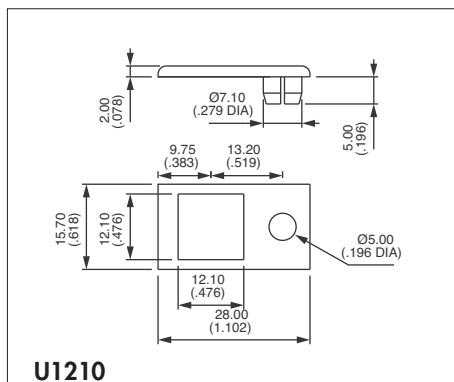
## BEZELS



For snap-in models (18800 - 18800X662)



**U1200**



**U1210**

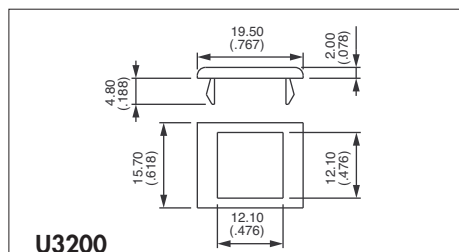
For LED Ø 5 - not supplied

### Bezel 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    |

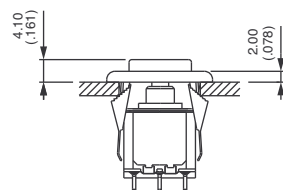
For bracket mounting models (18200Y & 18200YX624)



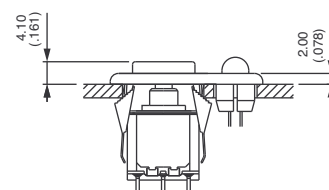
**U3200**

### 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

☐ Tactile feedback

## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 7A 30VDC
- Initial contact resistance : 20 mΩ max. at 0,1A 3VDC
- Insulation resistance : 200.000 MΩ 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

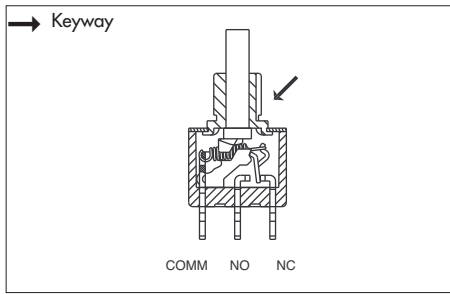
## MATERIALS

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

B2

# 18000 series

Snap-action momentary pushbutton switches



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

MODEL  
STRUCTURE

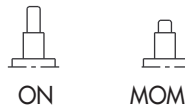


B2

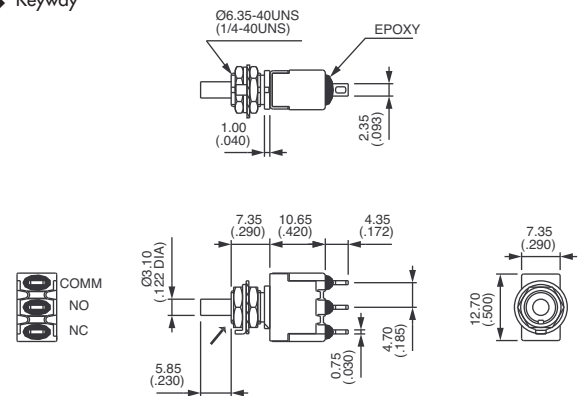
## Single pole



18635A



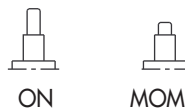
→ Keyway



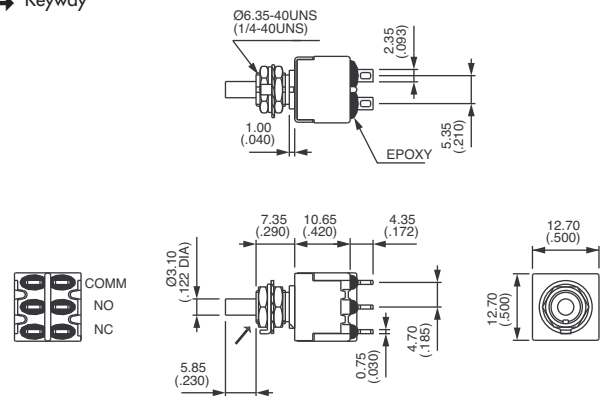
## Double pole



18645A



→ Keyway



## CAPS



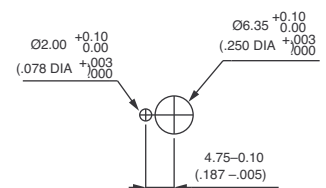
Round

|       |                          |
|-------|--------------------------|
| 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[18235WCD3](#) [18235AD](#) [18535AD](#) [18245WCD3](#) [18235WWCD3](#) [18235WCDX386](#) [18235YCD3](#) [18545AD](#) [18735AD](#)  
[18745AD](#) [18835AD+U912+U1202](#) [18845AD+U912+U1202](#) [18245WAD5](#) [18235WAD3](#) [18235WCD5](#) [18235WWAD5](#)  
[18235WWCD5](#) [18245Y7AD](#) [18245YCD](#) [18535CD](#) [18545AD6](#) [18545CD](#) [18835CD+U911+U1214](#)  
[18835CD+U912+U1202](#) [18835CDX662+U916+U1202](#) [18845CD+U912+U1202](#) [18535CD5](#) [18235CD](#)