

# 18000 series

Snap-action momentary pushbutton switches



## DISTINCTIVE FEATURES

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 : 100 mA - 30 VDC
  - 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 at full load



## 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 (-22 °F to +149 °F)
- Soldering : 300 °C (572 °F), 3 sec. max.



## 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

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

The company reserves the right to change specifications without notice.

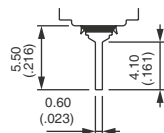
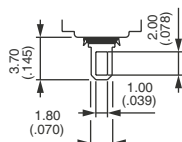


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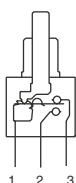


## TERMINALS

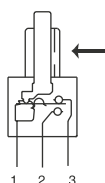


## ELECTRICAL FUNCTION

→ KEYWAY



Plain bushing

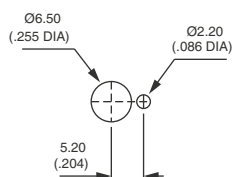


Threaded bushing

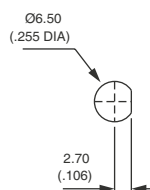


## PANEL CUT-OUT

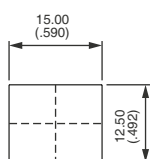
18500 - 18200



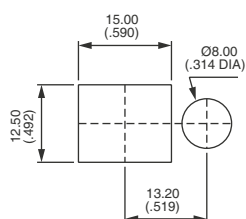
18700 - 18900



18800



With bezel U1200



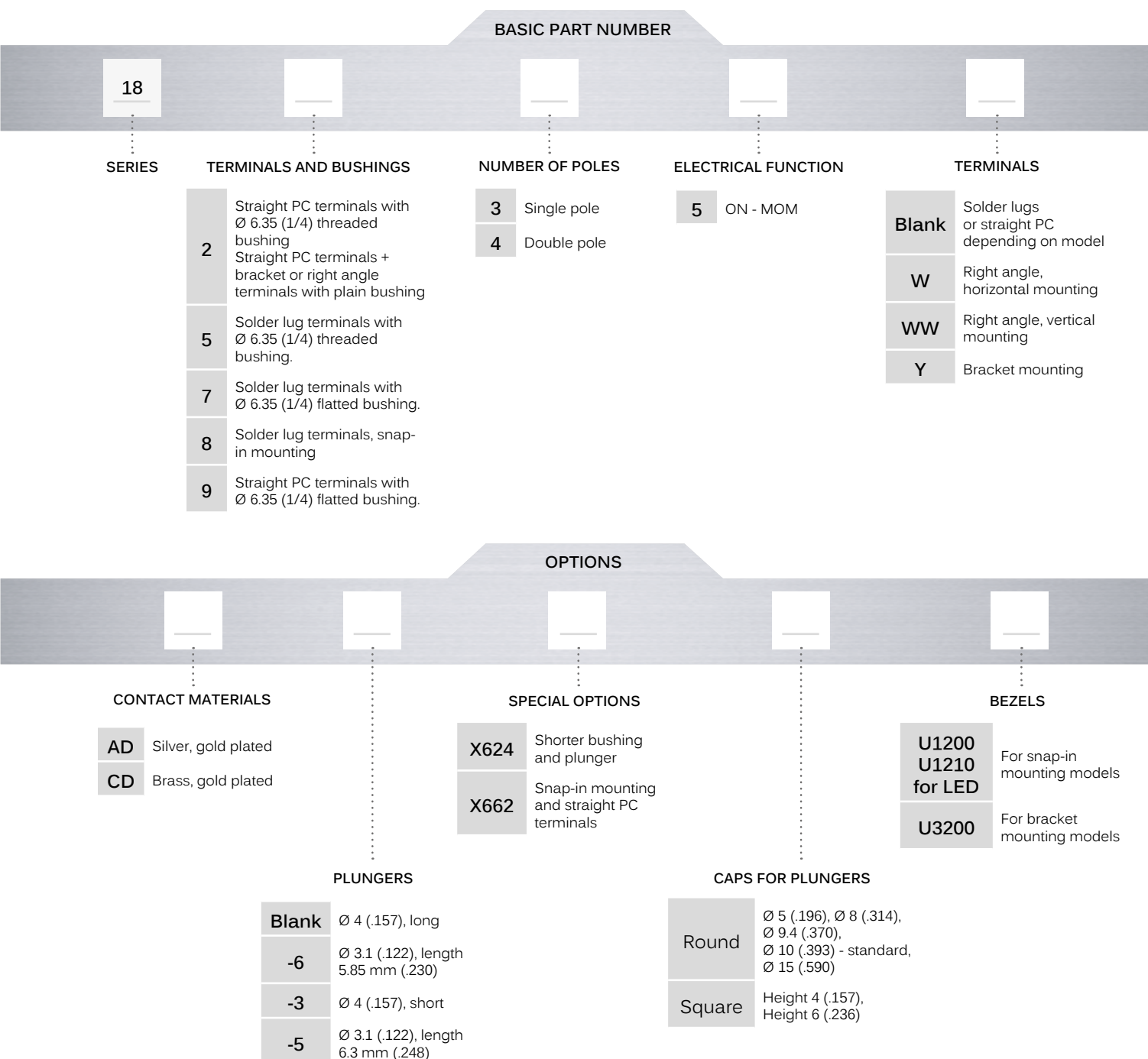
With bezel U1210 for LED

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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 following pages for further information.
- Sealing boots** are available to protect the switches against dust and water. See "Sealing Boots" section on website.
- 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 is presented in the "Hardware" section of website.

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## THREADED BUSHING

SOLDER LUG TERMINALS : 18500



Single pole

18535



1-3

ON



1-2

MOM

Double pole

18545

ON

MOM

## FLATTED BUSHING

SOLDER LUG TERMINALS : 18700



Single pole

18735



1-3

ON



1-2

MOM

Double pole

18745

ON

MOM

## THREADED BUSHING

STRAIGHT PC TERMINALS : 18200



Single pole

18235



1-3

ON



1-2

MOM

Double pole

18245

ON

MOM

## FLATTED BUSHING - STRAIGHT PC

TERMINALS : 18900



Single pole

18935



1-3

ON



1-2

MOM

Double pole

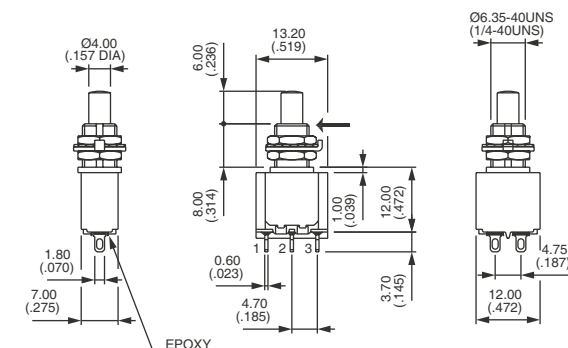
18945

ON

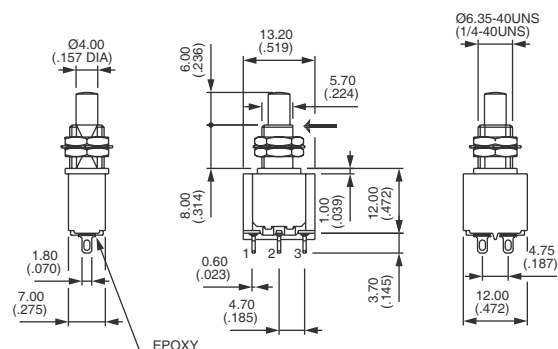
MOM

→ KEYWAY

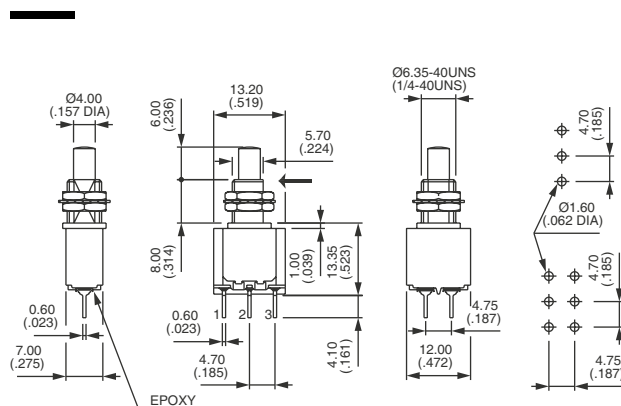
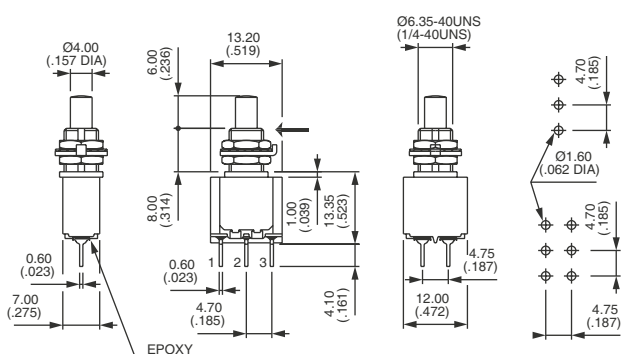
Shown with standard plunger



→ KEYWAY



→ KEYWAY



# 18000 series

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## SNAP-IN MOUNTING

SOLDER LUG TERMINALS : 18800



Single pole

18835



1-3

ON



1-2

MOM

Double pole

18845

ON

MOM

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

## STRAIGHT PC TERMINALS

BRACKET MOUNTING - SINGLE POLE : 18230Y



18235Y



ON



MOM

## STRAIGHT PC TERMINALS

BRACKET MOUNTING - DOUBLE POLE : 18240Y



18245Y



ON



MOM

## RIGHT ANGLE TERMINALS

HORIZONTAL : 18200W



Single pole

18235W



ON



MOM

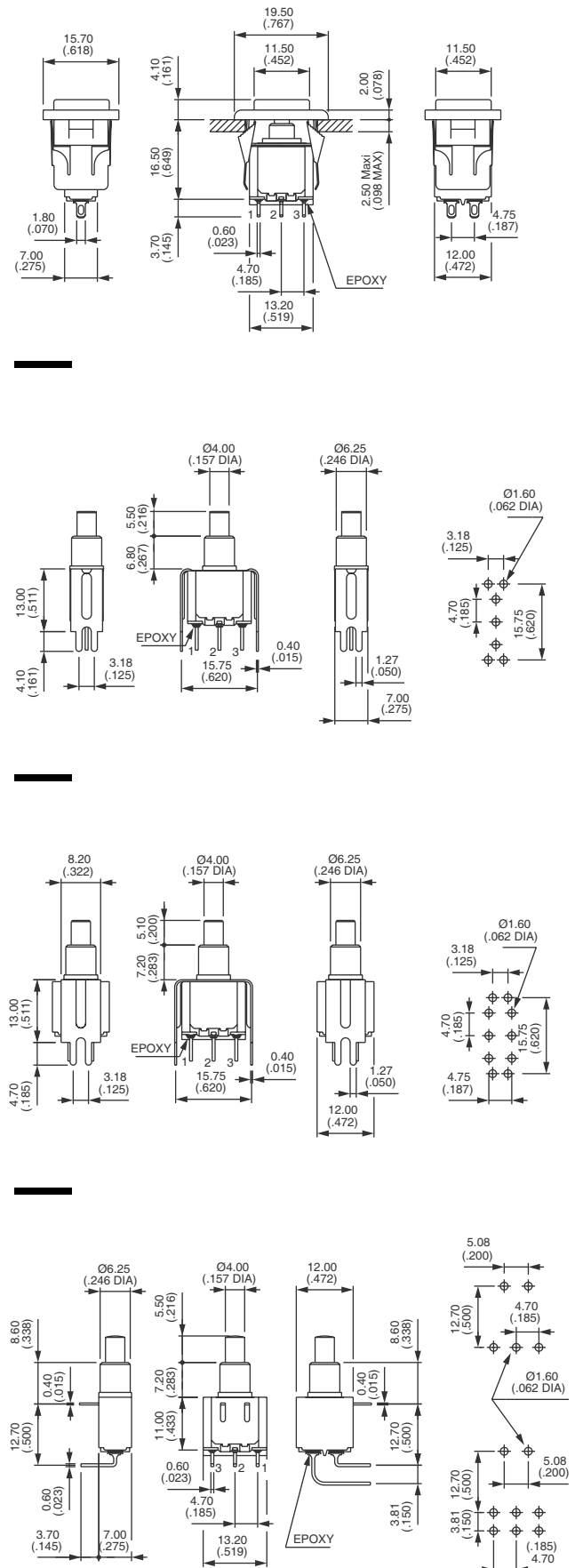
Double pole

18245W

ON

MOM

Shown with cap U910 + U1200



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## PLAIN BUSHING - RIGHT ANGLE TERMINALS VERTICAL : 18200WW



Single pole

**18235WW**

1-3

ON

1-2

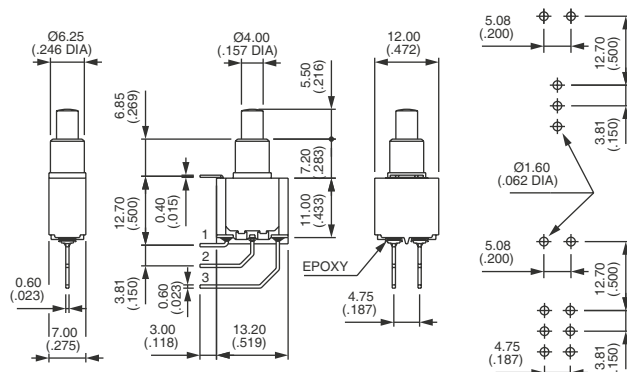
MOM

Double pole

**18245WW**

ON

MOM



### CONTACT MATERIALS

BASIC P/N

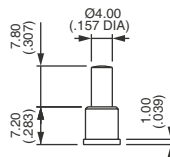
AD Silver, gold plated  
CD Brass, gold plated

### PLUNGERS

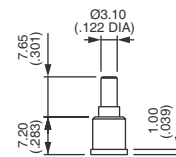
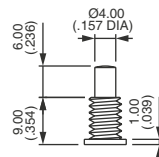
BASIC P/N

Dash compulsory before plunger code.

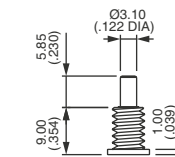
Blank Ø 4 (.157) - long  
-6 Ø 3.1 (.122)  
-3 Ø 4 (.157) - short  
-5 Ø 3.1 (.122)



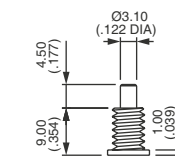
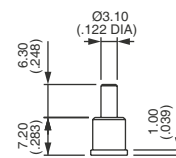
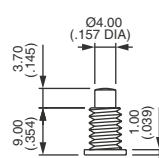
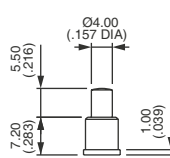
Blank



-3



-6



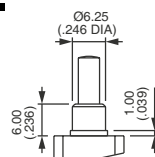
-5

### SPECIAL OPTIONS

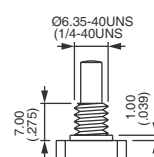
BASIC P/N

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).



X371



X372

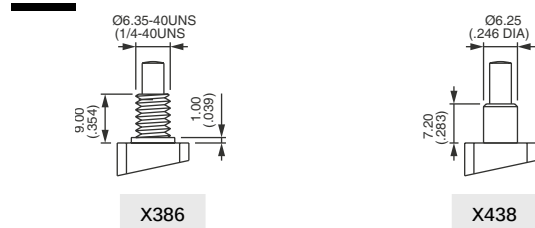
# 18000 series

## Snap-action momentary pushbutton switches

### SPECIAL OPTIONS (CONTINUED)



- 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.**
- X624** Straight PC terminals - bracket mounting - with shorter bushing and plunger
- X662** Snap-in mounting - straight PC terminals



### OPTION X624 - SINGLE POLE



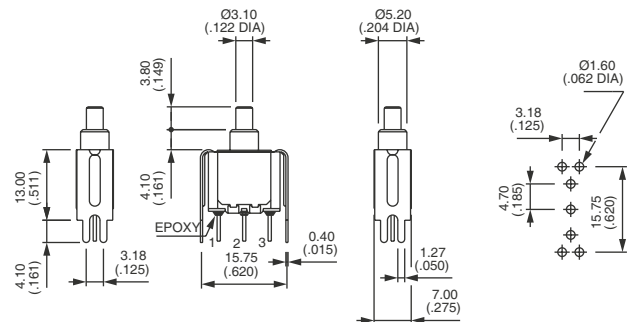
18235Y -2X624



ON



MOM



### OPTION X624 - DOUBLE POLE



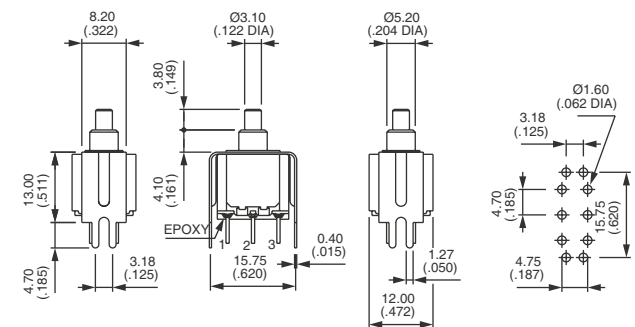
18245Y -2X624



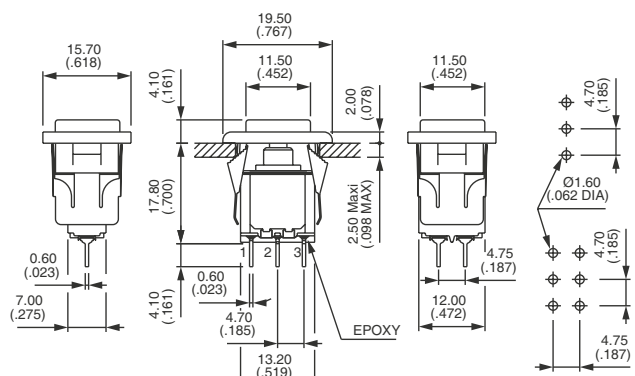
ON



MOM



### OPTION X662



# 18000 series

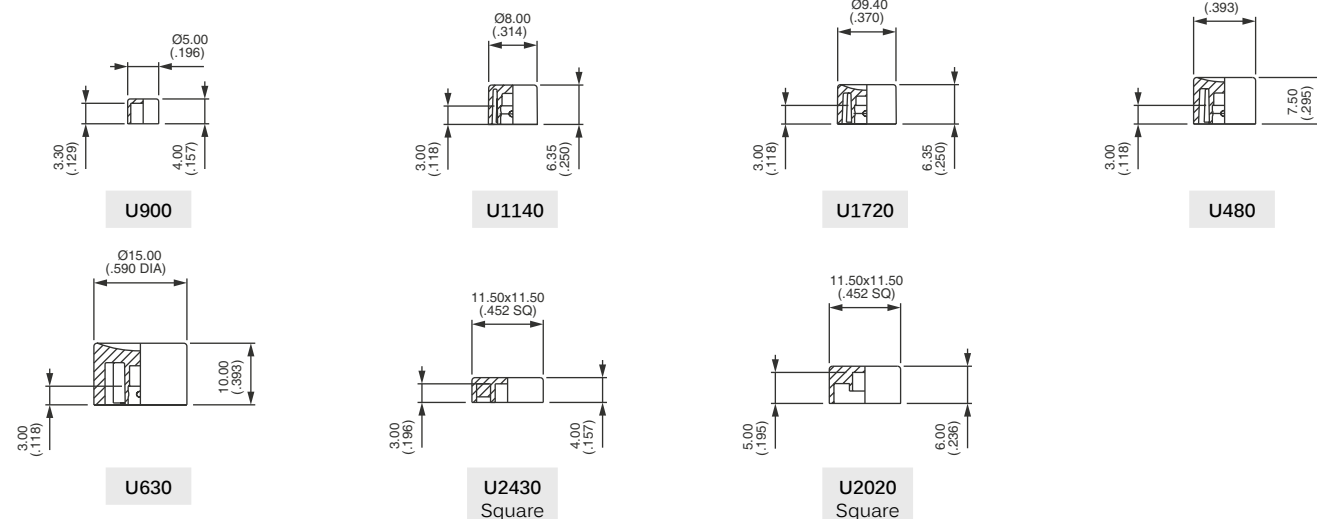
Snap-action momentary pushbutton switches



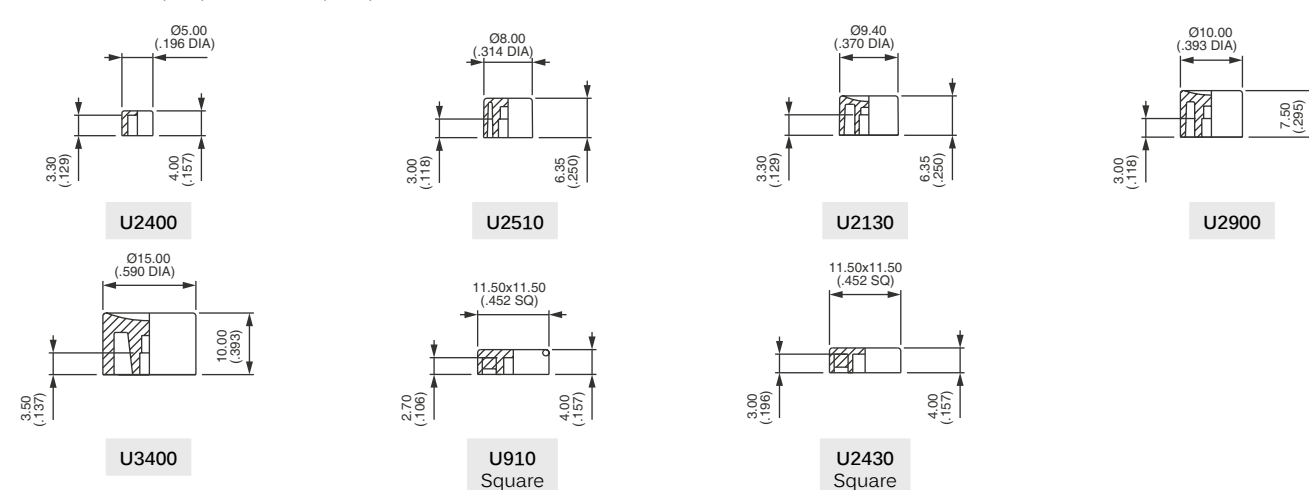
For cap colors, replace last "0" by number :

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

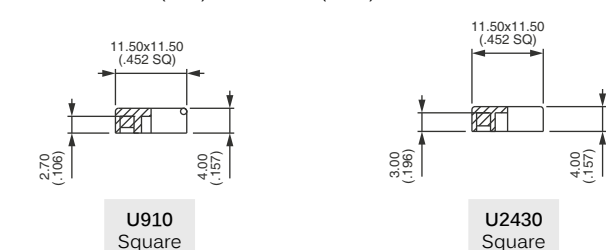
CAPS FOR Ø 4 (.157) PLUNGERS (-13, -3)



CAPS FOR Ø 3.1 (.122) PLUNGERS (-5, -6)



CAPS FOR Ø 3.1 (.122) PLUNGERS (-5, -6)



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Snap-action momentary pushbutton switches

## BEZELS

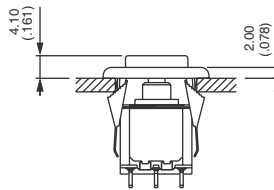


For cap colors, replace last "0" by number :

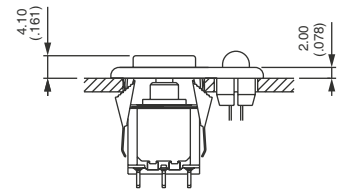
|     |           |     |        |
|-----|-----------|-----|--------|
| 1   | Blue      | 5   | Yellow |
| 1/4 | Dark blue | 6   | Red    |
| 2   | Black     | 7   | Ivory  |
| 3   | Green     | 7/1 | White  |
| 4   | Grey      | 9   | Orange |

## STANDARD PANEL MOUNTING

Panel thickness with bezel : 1 mm (.039) to 2.5 mm (.098)

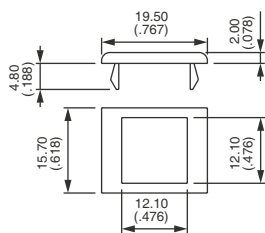


18800 + U910 + U1200



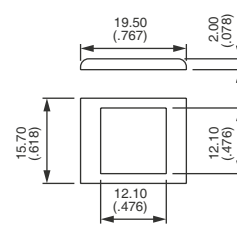
18800 + U910 + U1210

FOR BRACKET MOUNTING MODELS (18200Y & 18200YX624)

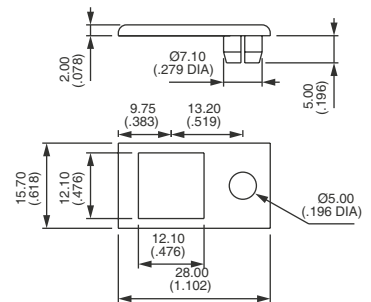


U3200

FOR SNAP-IN MODELS (18800 - 18800X662)



U1200



U1210  
For LED Ø 5 - not supplied

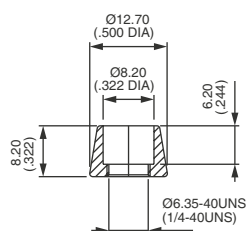
## DRESS NUTS

Order separately. For models with threaded bushing (18500 - 18700 - 18200 - 18900)  
Chrome plated.

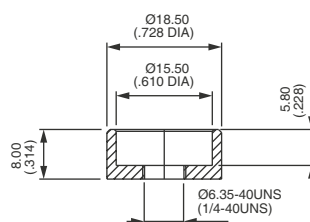
U1636 For caps U1140 and U2510

U840 For cap U480 and U2900

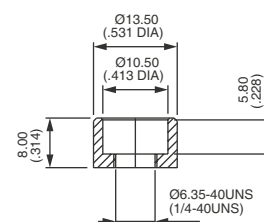
U825 For caps U630 and U3400



U1636



U840



U825

# 18000 series

Snap-action momentary pushbutton switches •  
high currents



## DISTINCTIVE FEATURES

Tactile feedback  
High currents



## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 7 A 30 VDC
- Initial contact resistance : 20 mΩ max. at 0.1 A 3 VDC
- 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

- Total travel : 0.9 mm (.035) approx.
- Operating temperature : -30 °C to +65 °C (-22 °F to +149 °F)



## MATERIALS

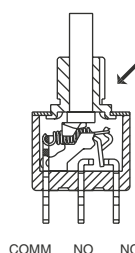
- Case : diallylphthalate (DAP)
- Actuator : glass filled polyester
- Bushing : brass, nickel plated
- Housing : stainless steel
- Contacts : silver
- Terminal seal : epoxy

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

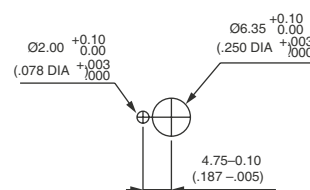


## ELECTRICAL FUNCTION

→ KEYWAY



## PANEL CUT-OUT



# 18000 series

Snap-action momentary pushbutton switches •  
high currents

## THREADED BUSHING - SINGLE POLE



18635A



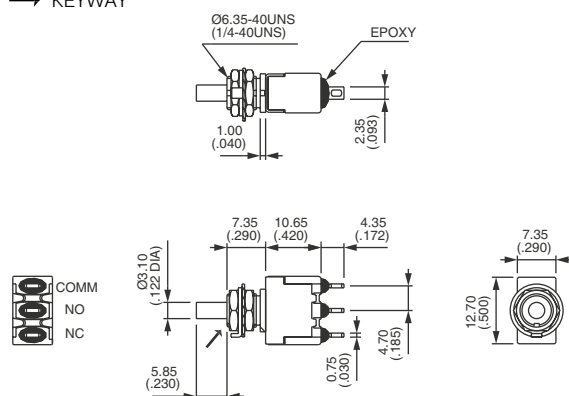
ON



MOM

Also available in double pole configuration.

→ KEYWAY



## CAPS

BASIC P/N

+ U...

ROUND

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

SQUARE

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

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