

18000 series

Snap-action momentary pushbutton switches

Distinctive features and specifications

UG1006-A



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

B

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - gold plated brass contacts : 100mA - 30VDC
 - gold plated silver contacts : 1A 125VAC, 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

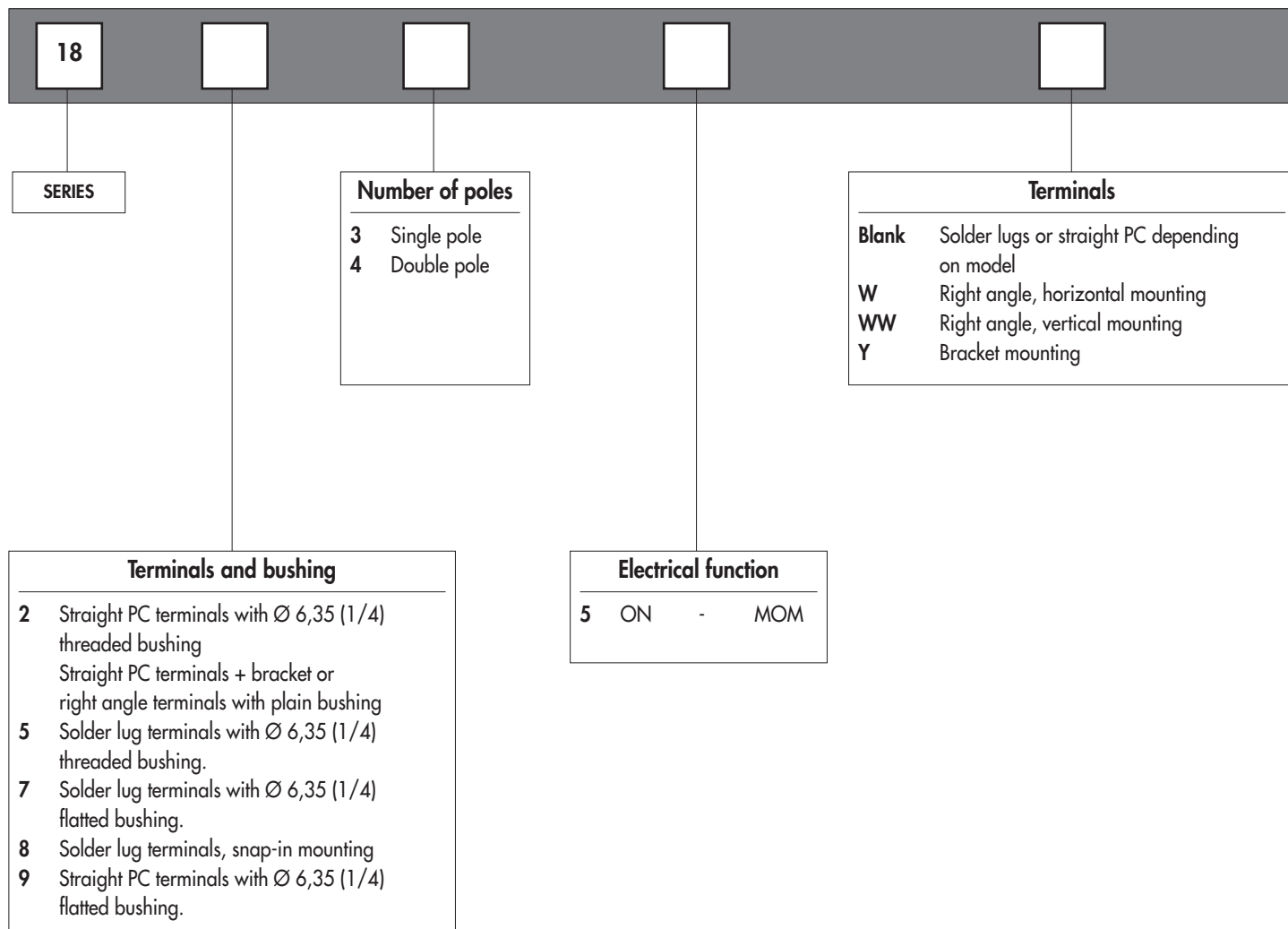
Models for high currents : see 18635A and 18645A at the end of the series.

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.



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 bracketted numbers.



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

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Overview

OPTIONS



Contact materials

AD	Silver, gold plated
CD	Brass, gold plated

Special options

X624 Shorter bushing and plunger
X662 Snap-in mounting and straight PC terminals

Other : specific bushings, etc... See following pages.

Bezels

For snap-in mounting models
U1200
U1210 for LED
For bracket mounting models
U3200

Plungers

Blank Ø 4 (.157), length 6 mm (.236)
Standard with threaded bushing
-6 Ø 3,1 (.122), length 5,85 mm (.230)
-3 Ø 4 (.157), length 5,5 mm (.216)
Standard with plain bushing
-5 Ø 3,1 (.122), length 6,3 mm (.248)

Caps

For Ø 4 (.157) plungers (-3, -13)
U900 Ø 5 (.196)
U1140 Ø 8 (.314)
U1720 Ø 9,4 (.370)
U480 Ø 10 (.393) - standard
U630 Ø 15 (.590)
U2430 Square
Height 4 (.157)
U2020 Square
Height 6 (.236)
For Ø 3,1 (.122) plungers (-5, -6)
U2400 Ø 5 (.196)
U2510 Ø 8 (.314)
U2130 Ø 9,4 (.370)
U2900 Ø 10 (.393)
U3400 Ø 15 (.590)
U910 Square
Height 4 (.157)
U2340 Square
Height 6 (.236)



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



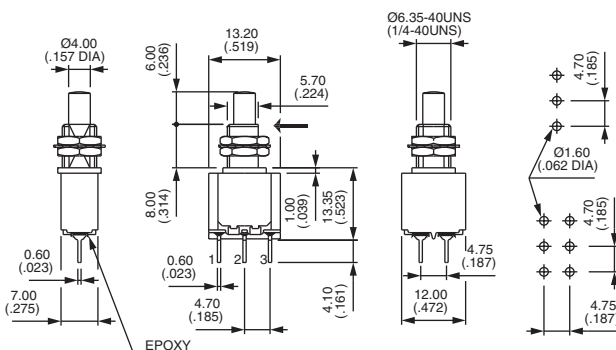
Mounting accessories : standard hardware supplied with all models with Ø 6,35 (1/4) threaded bushing :
2 hex nuts 8 mm (.314) across flats, 1 locking ring and 1 lockwasher.
Standard and special hardware available are presented in section I.



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

MODEL
STRUCTURE

→ Flat



Technical drawings of the 100 Series Plug Mount Connector showing three views: front, side, and rear. Dimensions are provided in inches and millimeters.

Front View Dimensions:

- Overall Width: 15.70 (.618)
- Bottom Pin Width: 1.80 (.070)
- Bottom Pin Spacing: 7.00 (.275)

Side View Dimensions:

- Top Flange Width: 19.50 (.767)
- Top Flange Thickness: 4.10 (.161)
- Top Flange to Pin Base: 16.50 (.649)
- Pin Base Width: 3.70 (.145)
- Pin Base Thickness: 0.60 (.023)
- Pin Base Spacing: 4.70 (.185)
- Pin Base to Pin Tip: 13.20 (.519)
- Pin Base to Pin Tip (MAX): 2.50 Maxi (.098 MAX)
- Pin Base to Pin Tip (MAX) (EPOXY): 2.00 (.078)
- Pin Base to Pin Tip (MAX) (EPOXY) (MAX): 11.50 (.452)

Rear View Dimensions:

- Overall Width: 11.50 (.452)
- Bottom Pin Width: 4.75 (.187)
- Bottom Pin Spacing: 12.00 (.472)

APEM



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Snap-action momentary pushbutton switches

OPTIONS



Right angle terminals - vertical : 18200WW



Single pole
18235WW

Double pole
18245WW



1-3

ON

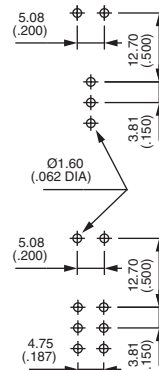
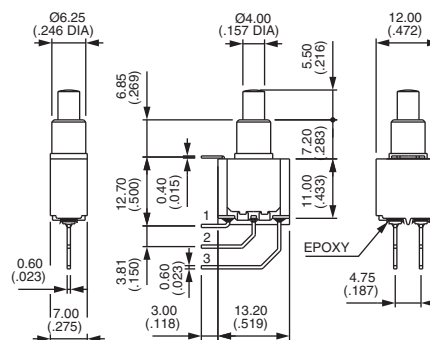


1-2

MOM

ON

MOM



CONTACT MATERIALS

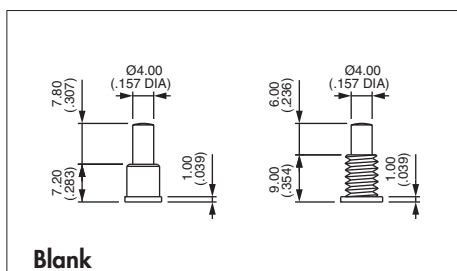


AD Silver, gold plated
CD Brass, gold plated

PLUNGERS

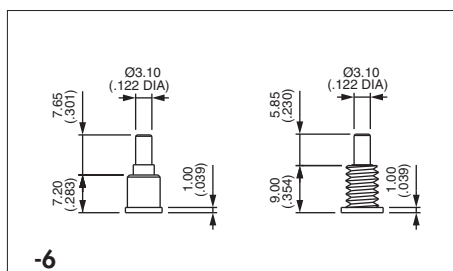


Dash compulsory before plunger code.



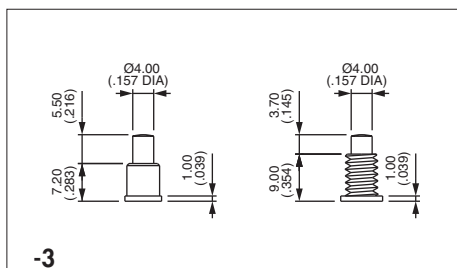
Blank

Ø 4 (.157) - standard with threaded bushing



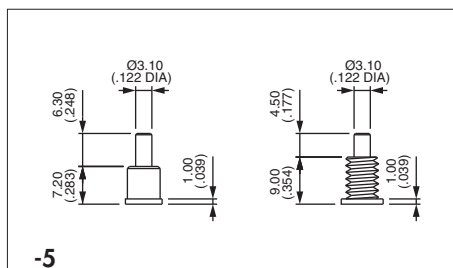
-6

Ø 3,1 (.122)



-3

Ø 4 (.157) - standard with plain bushing



-5

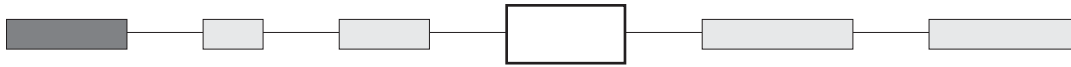
Ø 3,1 (.122)



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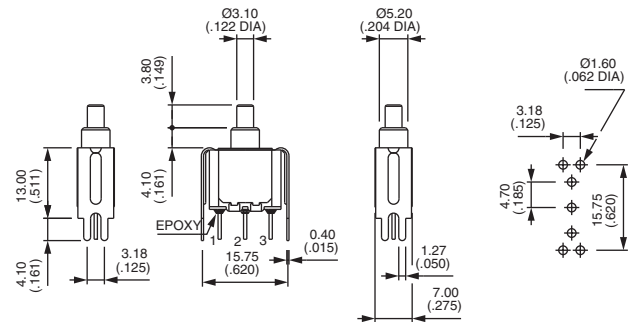
SPECIAL OPTIONS



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

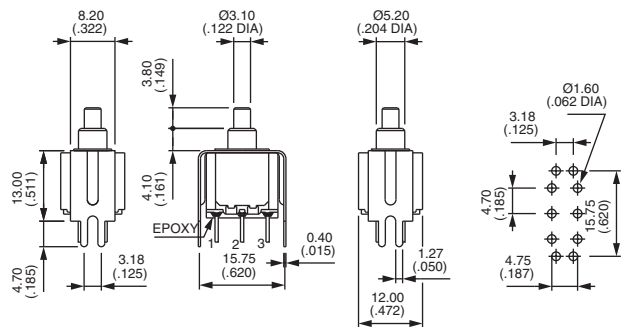
Single pole

18235Y -2X624



Double pole

18245Y -2X624

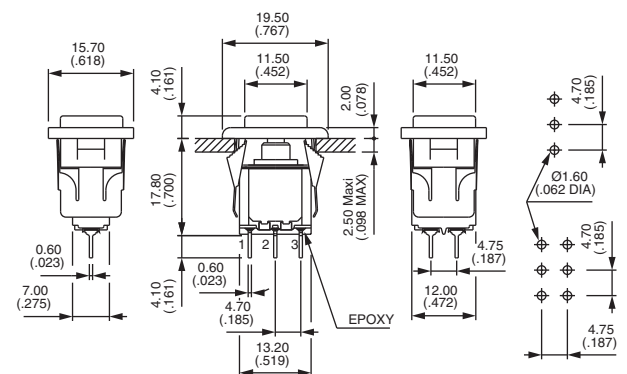


X662 Snap-in mounting - straight PC terminals

Single pole
18835 X662



Double pole
18845 X662



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OPTIONS
● ● ●

SPECIAL OPTIONS (continued)

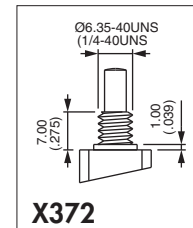


X371 Plain bushing $\varnothing$ 6,25 mm (.246) (instead of standard threaded bushing).

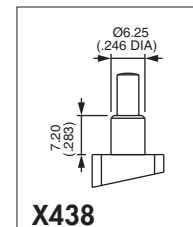
X372 Shorter threaded bushing $\varnothing$ 6,35 (1/4). Height 7 mm (.274).

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

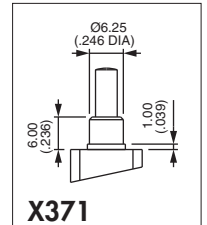
X438 Plain bushing $\varnothing$ 6,25 mm (.246). Height 7,2 mm (.283) - without shoulder.



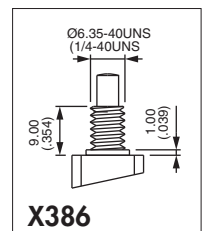
X372



X438

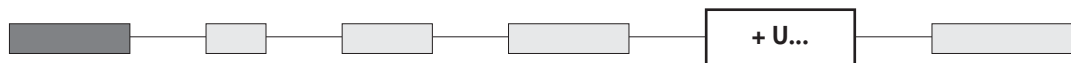


X371

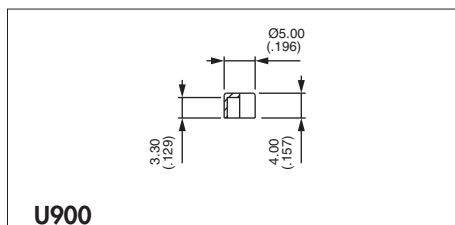


X386

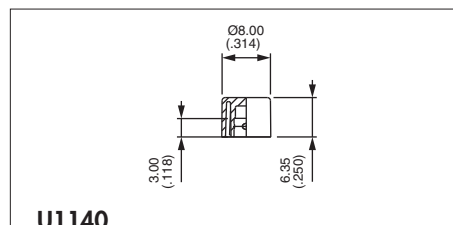
CAPS



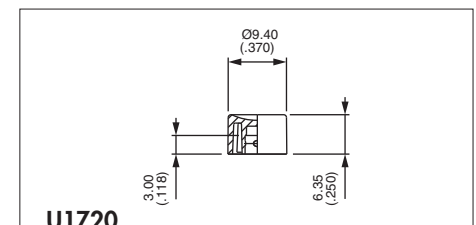
Caps for $\varnothing$ 4 (.157) plungers (-13, -3)



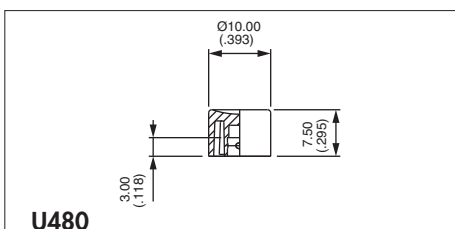
U900



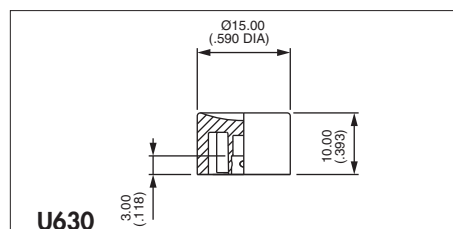
U1140



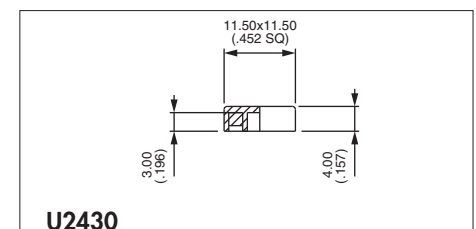
U1720



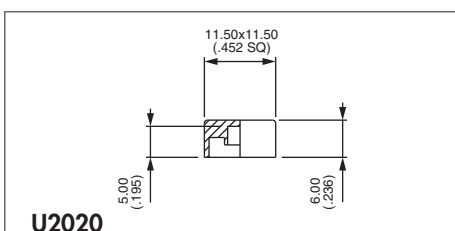
U480



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

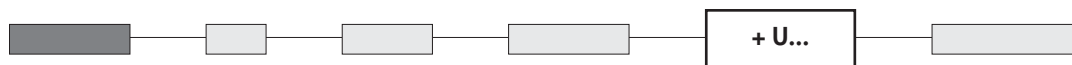
Square



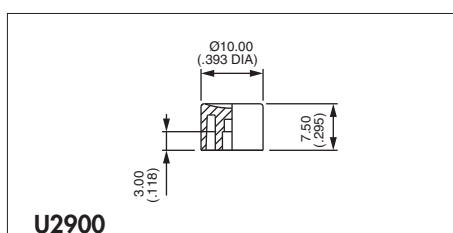
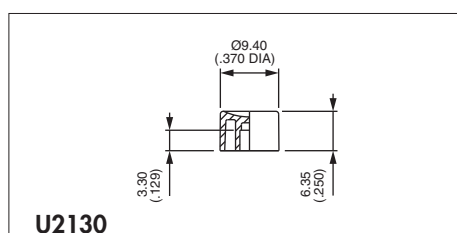
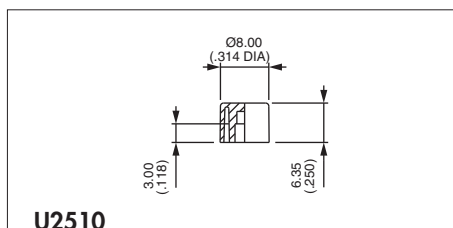
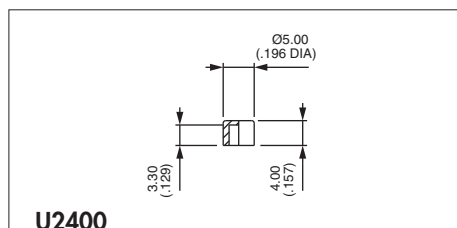
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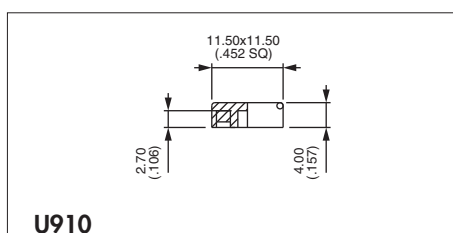
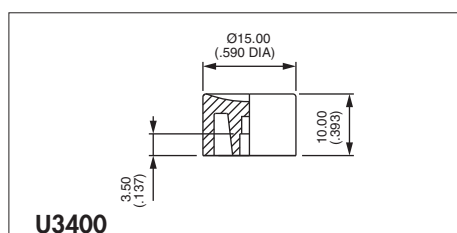
CAPS (continued)



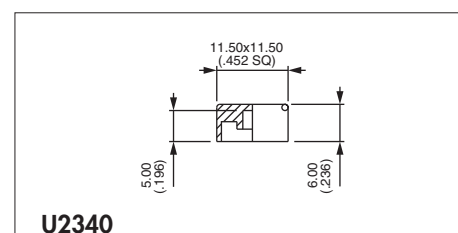
Caps for Ø 3,1 (.122) plungers (-5, -6)



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

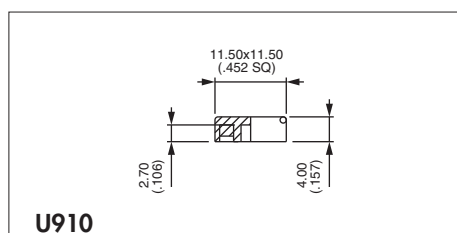


Square

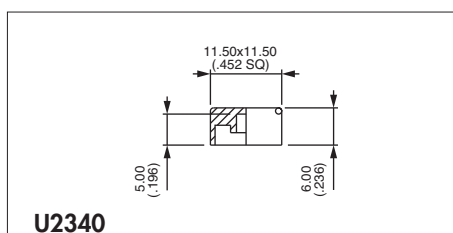


Square

Caps for 18800 and 18800X662 models



Square



Square

18000 series

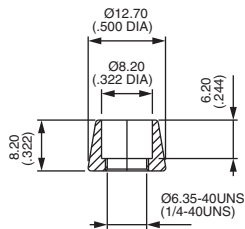
Snap-action momentary pushbutton switches

OPTIONS
● ● ●

DRESS NUTS

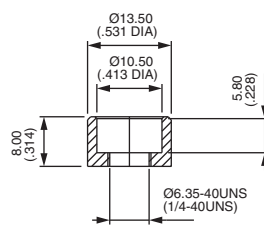
For models with threaded bushing (18500 - 18700 - 18200 - 18900)

Chrome plated - Order separately.



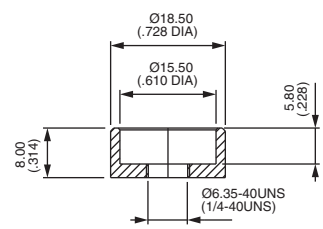
U1636

For caps U1140 and U2510



U840

For cap U480 and U2900



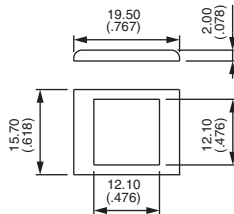
U825

For caps U630 and U3400

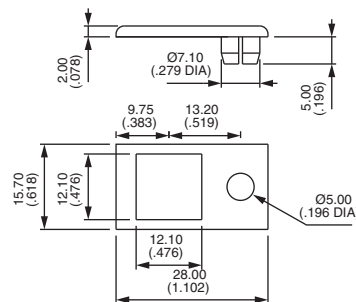
BEZELS



For snap-in models (18800 - 18800X662)



U1200



U1210

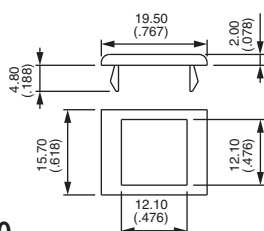
For LED Ø 5 - not supplied

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 |

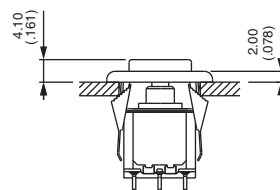
For bracket mounting models
(18200Y & 18200YX624)



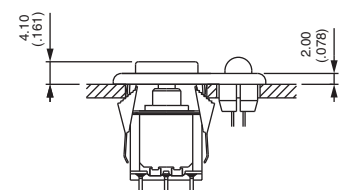
U3200

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 :
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

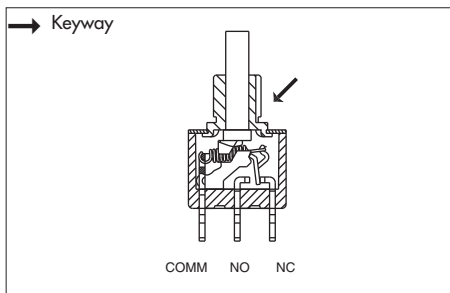
MATERIALS

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

B

18000 series

Snap-action momentary pushbutton switches



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

MODEL
STRUCTURE



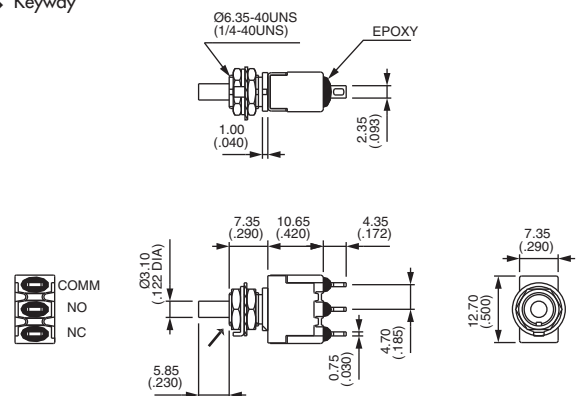
Single pole



18635A



→ Keyway



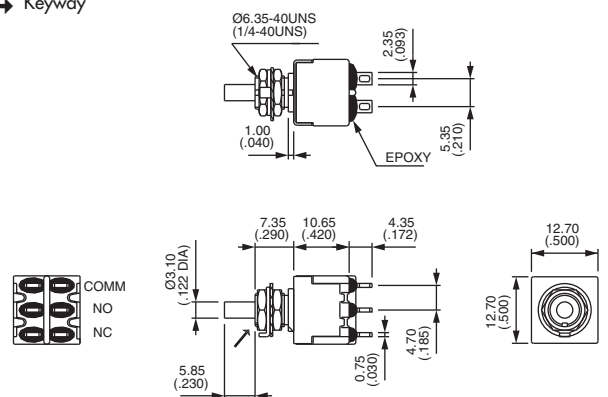
Double pole



18645A



→ Keyway



CAPS



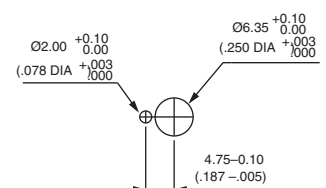
Round

U2400	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)

PANEL CUT-OUT



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