

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

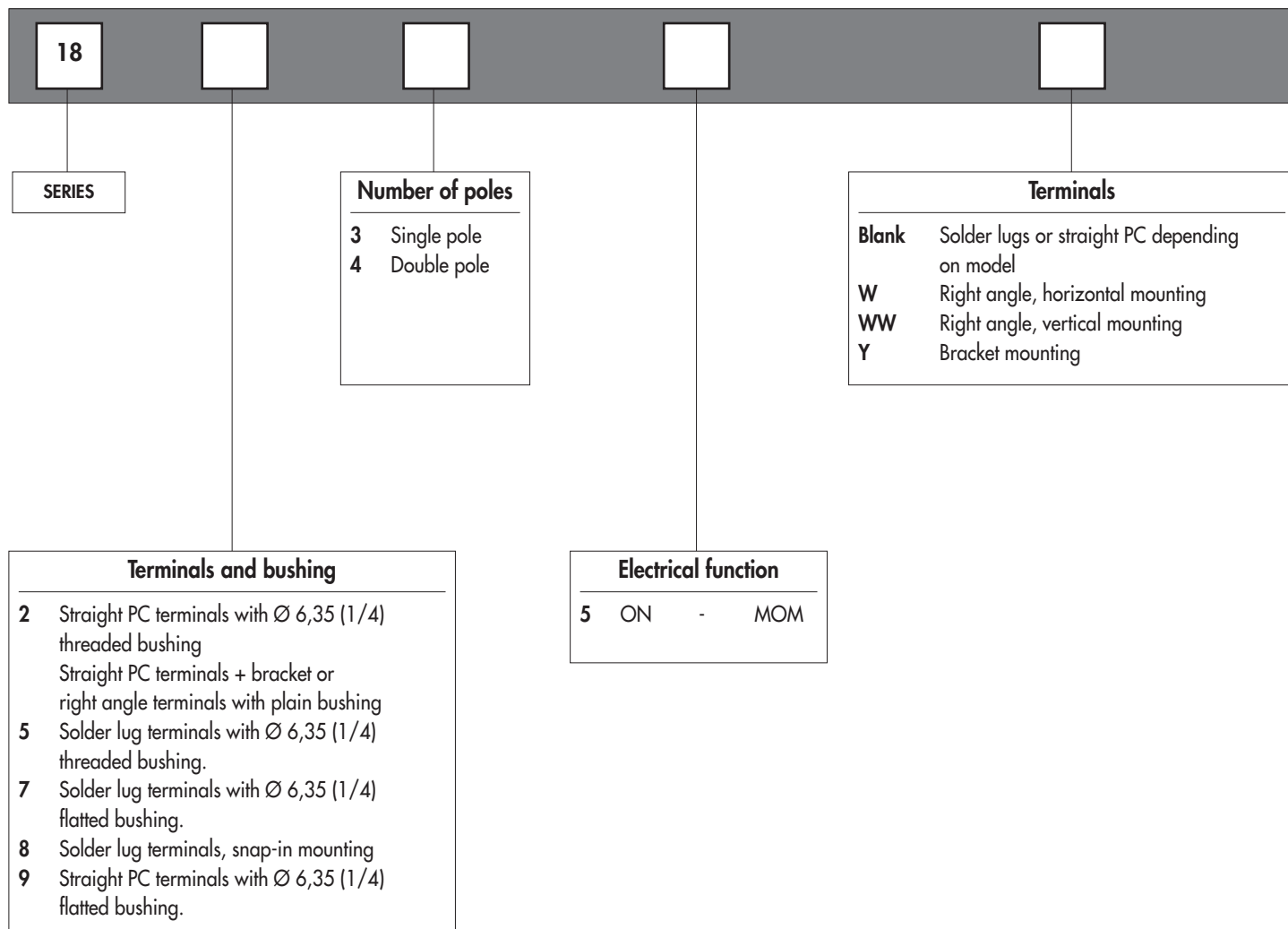
Models for high currents : see 18635A and 18645A at the end of the series.

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.

18000 series

Snap-action momentary pushbutton switches

Overview

OPTIONS
● ● ●

B

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.



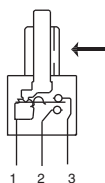
Packaging unit : 25 pieces for W, WW double pole and 18800 models
50 pieces for other models.

18000 series

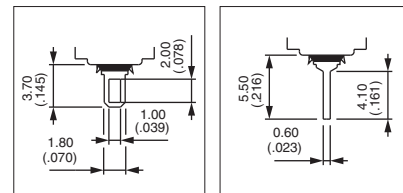
Snap-action momentary pushbutton switches

Threaded bushing $\varnothing 6,35$ (1/4) : 18500 - 18700 - 18200

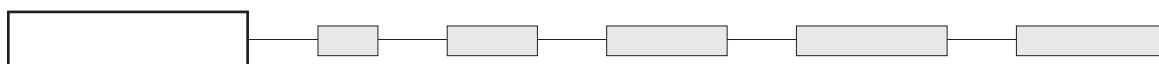
→ Keyway



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



MODEL
STRUCTURE



Shown with standard plunger

B

Solder lug terminals : 18500

→ Keyway



Single pole
18535

Double pole
18545



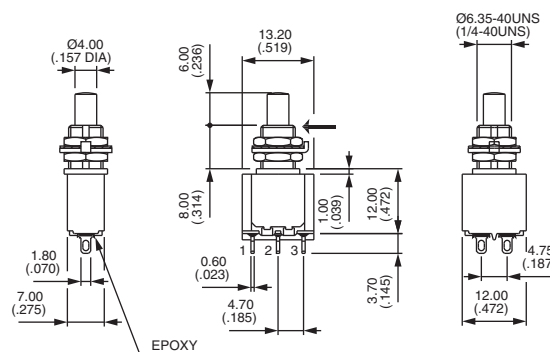
1-3

ON



1-2

MOM



Flatted bushing - solder lug terminals : 18700

→ Flat



Single pole
18735

Double pole
18745



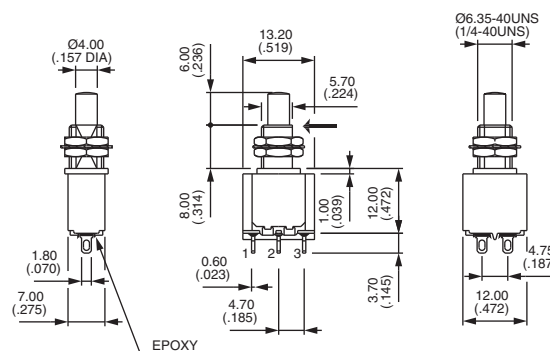
1-3

ON



1-2

MOM



Straight PC terminals : 18200

→ Keyway



Single pole
18235

Double pole
18245



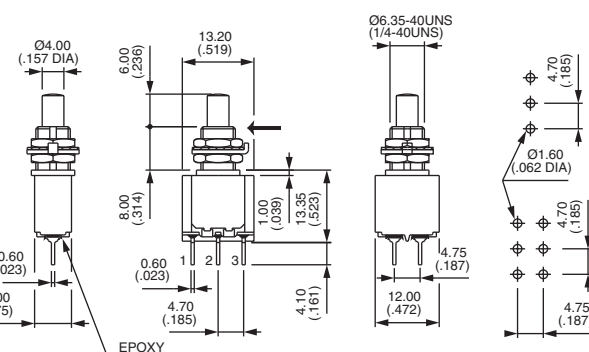
1-3

ON



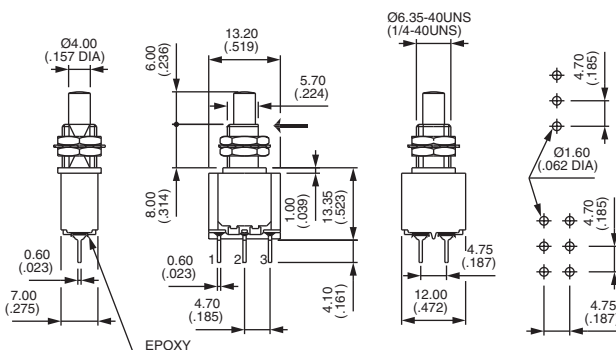
1-2

MOM



MODEL
STRUCTURE

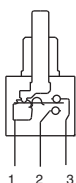
→ Flat

[illegible]

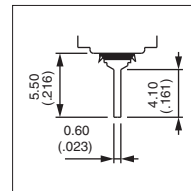
18000 series

Snap-action momentary pushbutton switches

Plain bushing : 18200Y - 18200W - 18200WW



- Straight PC or right angle terminals
- Epoxy sealed terminals standard



MODEL STRUCTURE



Shown with standard plunger (-3)

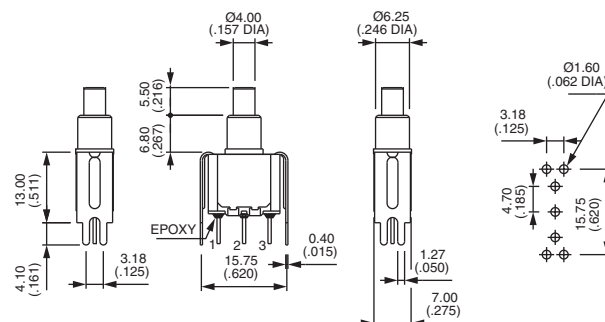
B

Straight PC terminals - bracket mounting - single pole 18230Y

18235Y

ON

MOM



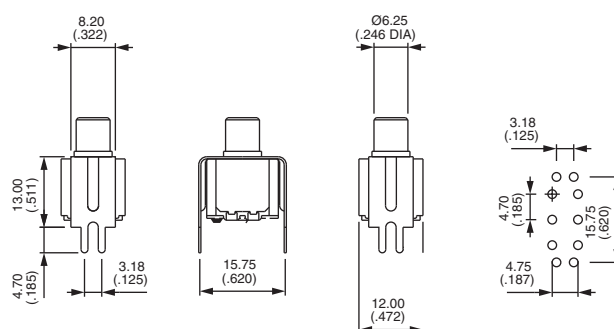
Straight PC terminals - bracket mounting - double pole 18240Y



18245Y

ON

MOM



Right angle terminals - horizontal : 18200W

Single pole
18235W

ON

MOM

Double pole
18245W

ON

MOM

18000 series

Snap-action momentary pushbutton switches

OPTIONS



Right angle terminals - vertical : 18200WW



Single pole
18235WW

Double pole
18245WW



1-3

ON

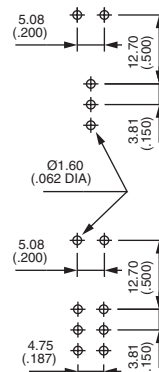
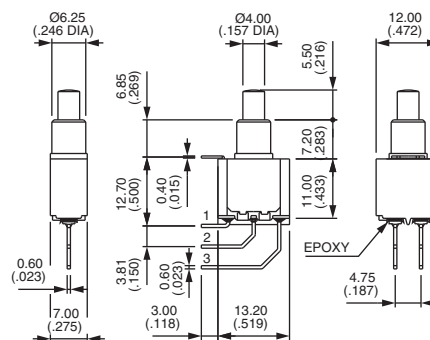


1-2

MOM

ON

MOM



CONTACT MATERIALS

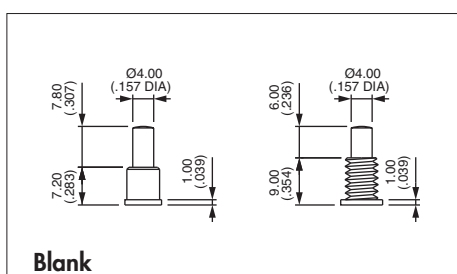


AD Silver, gold plated
CD Brass, gold plated

PLUNGERS

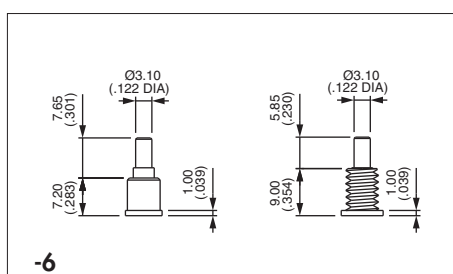


Dash compulsory before plunger code.



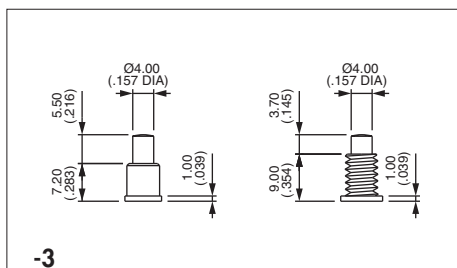
Blank

Ø 4 (.157) - standard with threaded bushing



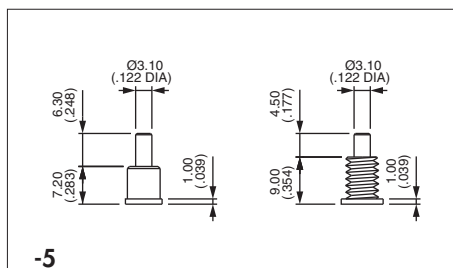
-6

Ø 3,1 (.122)



-3

Ø 4 (.157) - standard with plain bushing



-5

Ø 3,1 (.122)

Snap-action momentary pushbutton switches

Single pole

18235Y -2X624

ON

MOM

Mechanical drawings for the 18235Y -2X624 single pole switch. The drawings include a perspective view, a top view, a side view, and a detail view of the terminal pattern. Key dimensions are provided in inches and millimeters.

- Top View: Overall width 8.20 (.322), overall height 13.00 (.511), mounting hole diameter Ø3.10 (.122 DIA), mounting hole spacing 3.80 (.149), terminal spacing 4.10 (.161), terminal width 3.18 (.125), terminal length 15.75 (.620), terminal pitch 0.40 (.015), and terminal offset 1.27 (.050).
- Side View: Overall height 7.00 (.275), mounting hole diameter Ø5.20 (.204 DIA), mounting hole spacing 3.18 (.125), terminal spacing 4.70 (.185), terminal width 3.18 (.125), terminal length 15.75 (.620), terminal pitch 0.40 (.015), and terminal offset 1.27 (.050).
- Detail View: Terminal pattern with mounting hole diameter Ø1.60 (.062 DIA), mounting hole spacing 3.18 (.125), terminal spacing 4.70 (.185), terminal width 3.18 (.125), terminal length 15.75 (.620), terminal pitch 0.40 (.015), and terminal offset 1.27 (.050).

Double pole

18245Y -2X624

ON

MOM

Mechanical drawings for the 18245Y -2X624 double pole switch. The drawings include a perspective view, a top view, a side view, and a detail view of the terminal pattern. Key dimensions are provided in inches and millimeters.

- Top View: Overall width 8.20 (.322), overall height 13.00 (.511), mounting hole diameter Ø3.10 (.122 DIA), mounting hole spacing 3.80 (.149), terminal spacing 4.10 (.161), terminal width 3.18 (.125), terminal length 15.75 (.620), terminal pitch 0.40 (.015), and terminal offset 1.27 (.050).
- Side View: Overall height 12.00 (.472), mounting hole diameter Ø5.20 (.204 DIA), mounting hole spacing 3.18 (.125), terminal spacing 4.70 (.185), terminal width 3.18 (.125), terminal length 15.75 (.620), terminal pitch 0.40 (.015), and terminal offset 1.27 (.050).
- Detail View: Terminal pattern with mounting hole diameter Ø1.60 (.062 DIA), mounting hole spacing 3.18 (.125), terminal spacing 4.70 (.185), terminal width 3.18 (.125), terminal length 15.75 (.620), terminal pitch 0.40 (.015), and terminal offset 1.27 (.050).

[illegible]

18000 series

Snap-action momentary pushbutton switches

OPTIONS
● ● ●

SPECIAL OPTIONS (continued)

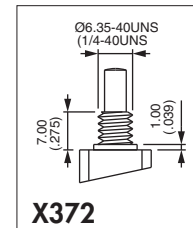


X371 Plain bushing $\varnothing 6,25$ mm (.246) (instead of standard threaded bushing).

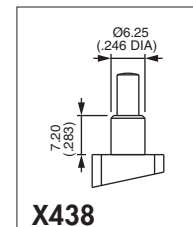
X372 Shorter threaded bushing $\varnothing 6,35$ (1/4). Height 7 mm (.274).

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

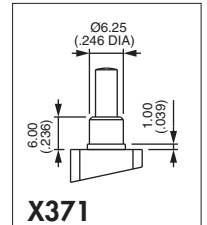
X438 Plain bushing $\varnothing 6,25$ mm (.246). Height 7,2 mm (.283) - without shoulder.



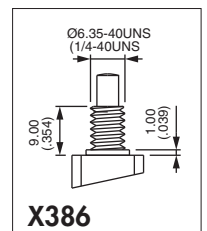
X372



X438

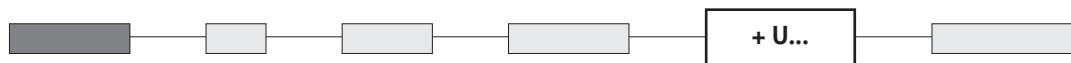


X371

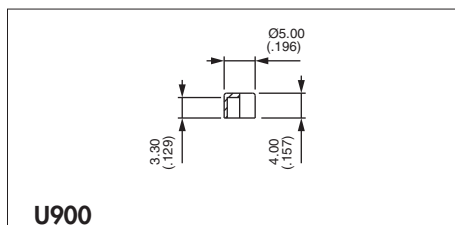


X386

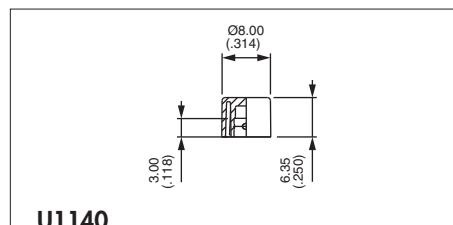
CAPS



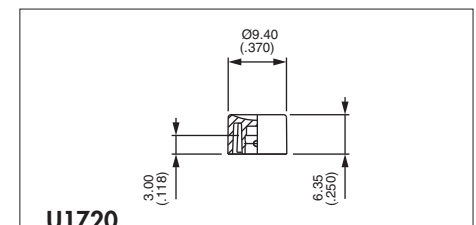
Caps for $\varnothing 4$ (.157) plungers (-13, -3)



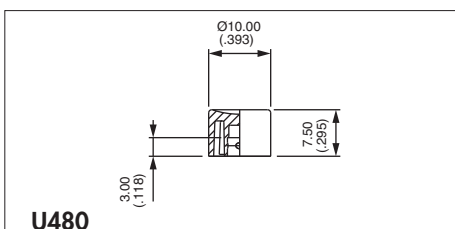
U900



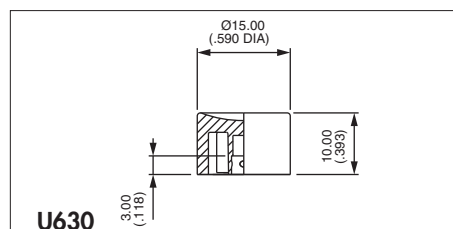
U1140



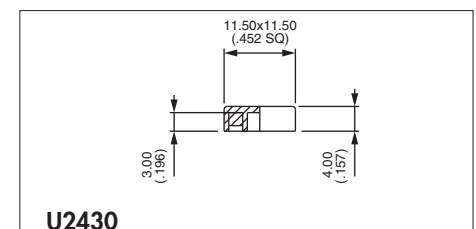
U1720



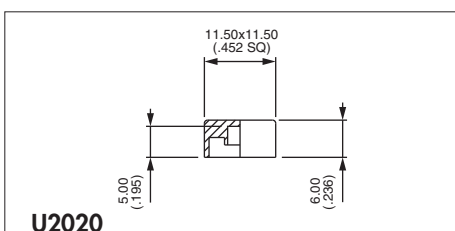
U480



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

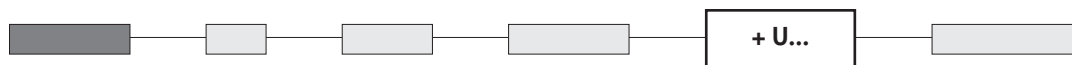
Square



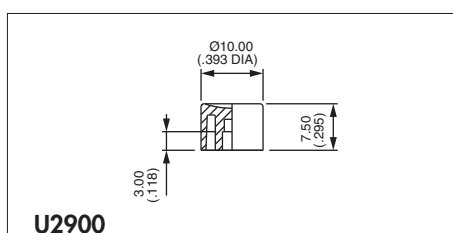
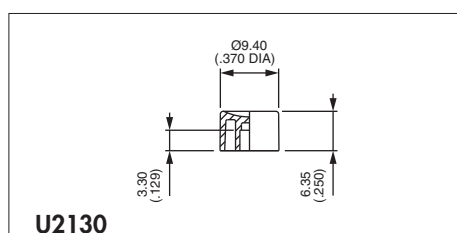
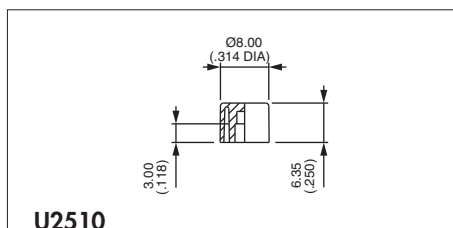
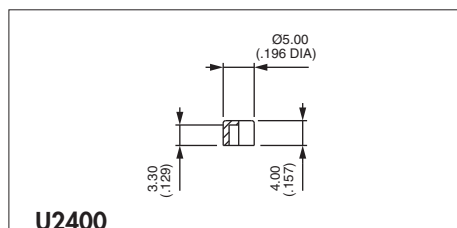
18000 series

Snap-action momentary pushbutton switches

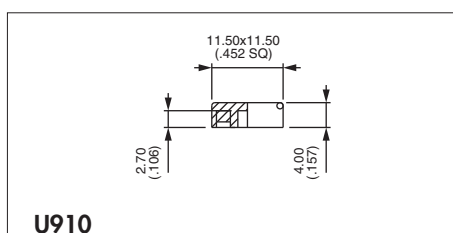
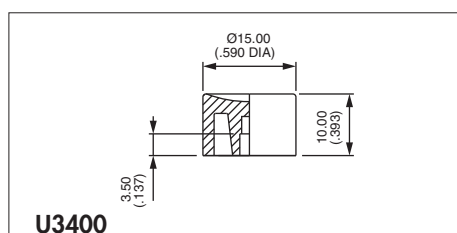
CAPS (continued)



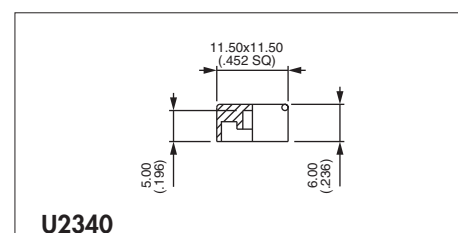
Caps for Ø 3,1 (.122) plungers (-5, -6)



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

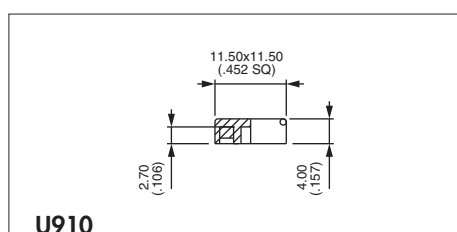


Square

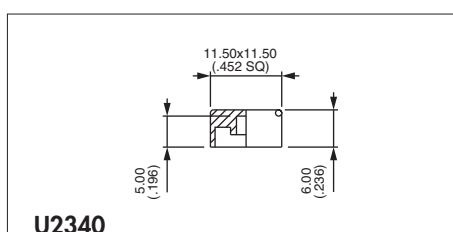


Square

Caps for 18800 and 18800X662 models



Square



Square

18000 series

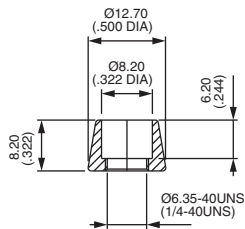
Snap-action momentary pushbutton switches

OPTIONS
● ● ●

DRESS NUTS

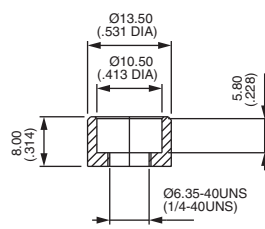
For models with threaded bushing (18500 - 18700 - 18200 - 18900)

Chrome plated - Order separately.



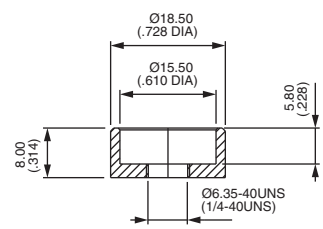
U1636

For caps U1140 and U2510



U840

For cap U480 and U2900



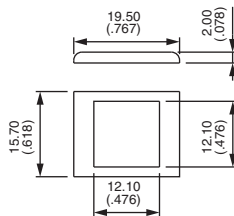
U825

For caps U630 and U3400

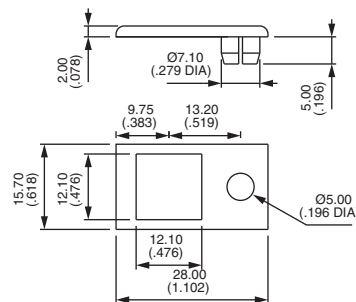
BEZELS



For snap-in models (18800 - 18800X662)



U1200



U1210

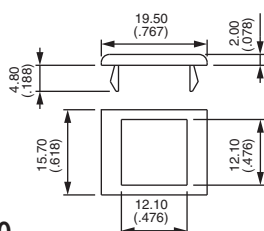
For LED Ø 5 - not supplied

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 |

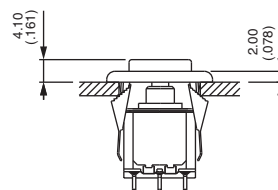
For bracket mounting models
(18200Y & 18200YX624)



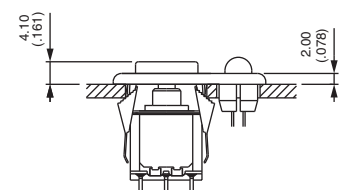
U3200

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 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

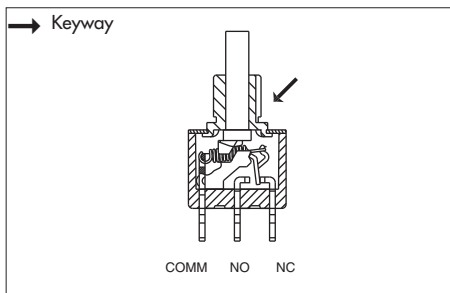
MATERIALS

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

B

18000 series

Snap-action momentary pushbutton switches



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

MODEL
STRUCTURE



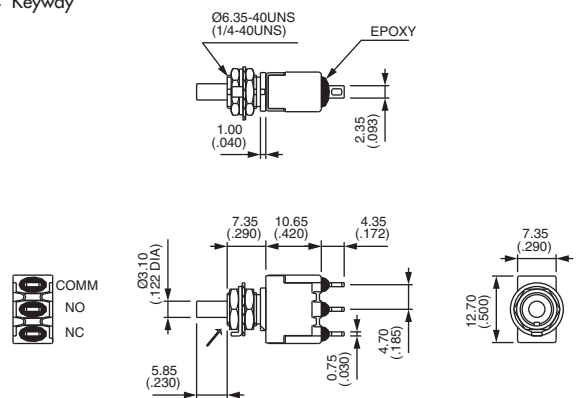
Single pole



18635A



→ Keyway



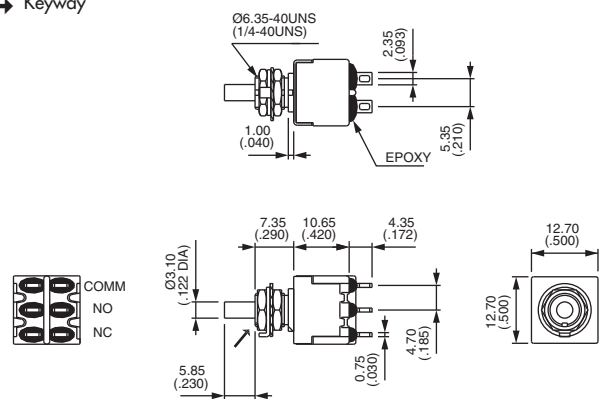
Double pole



18645A



→ Keyway



CAPS



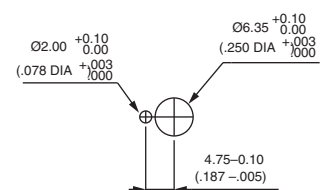
Round

U2400	$\varnothing 5$ (.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.