

18000 series

Snap-action momentary pushbutton switches

Distinctive features and specifications



- ☐ 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 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.

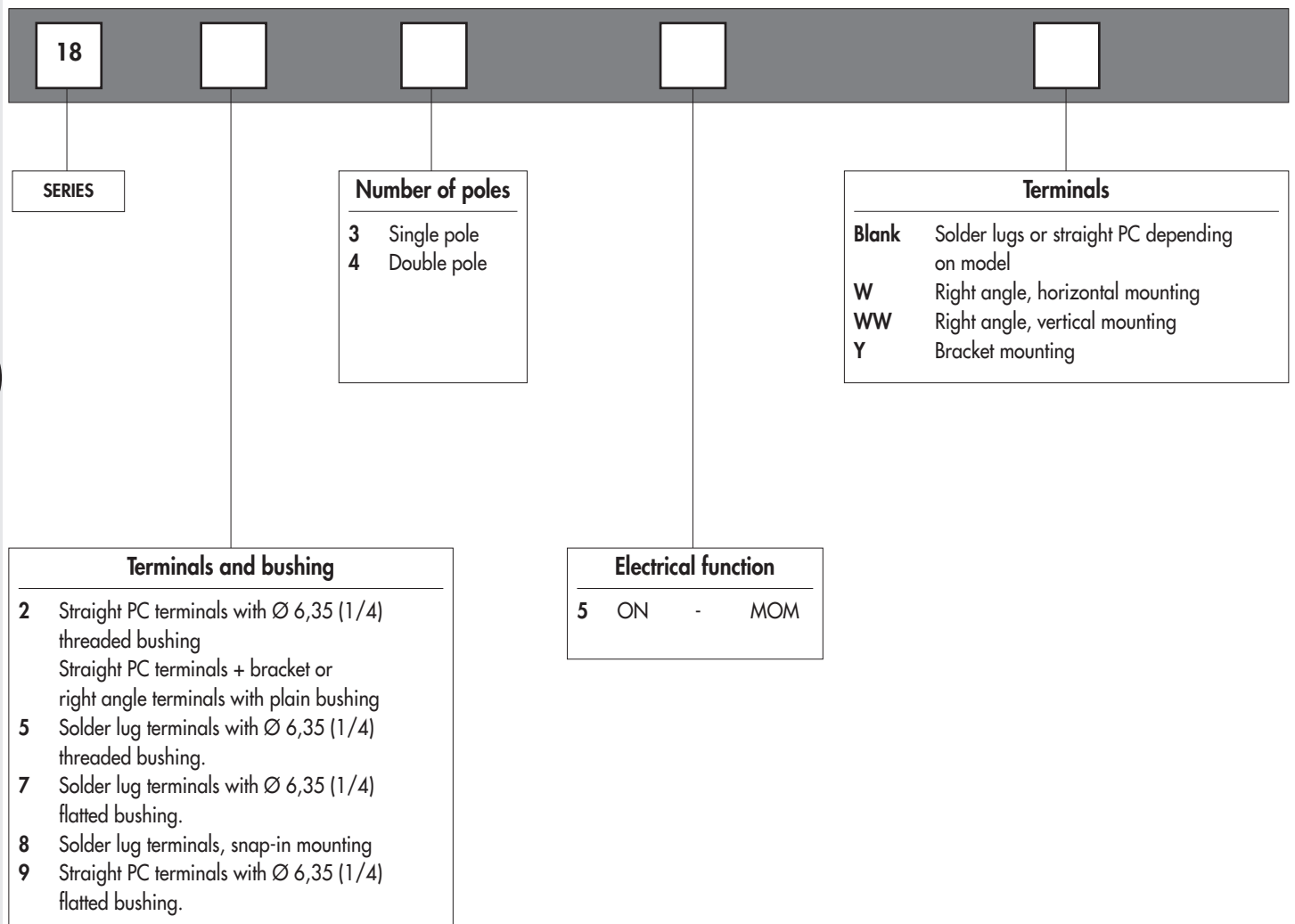
18000 series

Snap-action momentary pushbutton switches

Overview

MODEL
STRUCTURE

B



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.



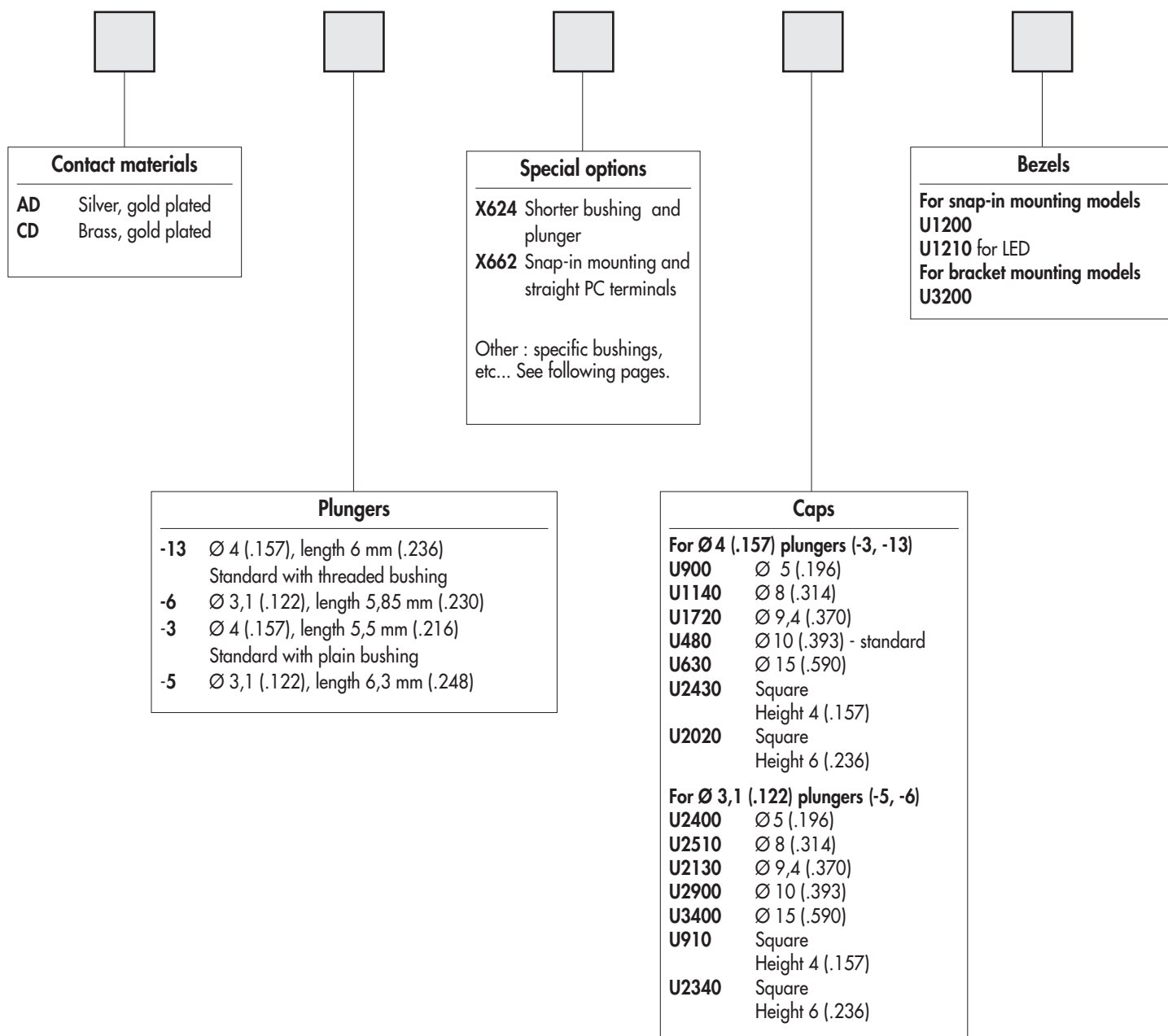
NOTICE : please note that not all combinations of above numbers are available.
Refer to the following pages for further information.



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Overview



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.

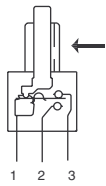
18000 series

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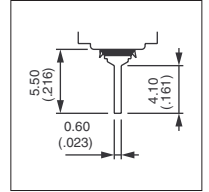
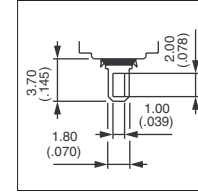
Threaded bushing $\varnothing 6,35$ (1/4) : 18500 - 18700 - 18200

MODEL
STRUCTURE

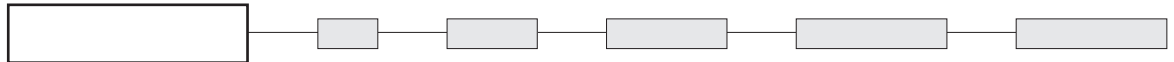
→ Keyway



- 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



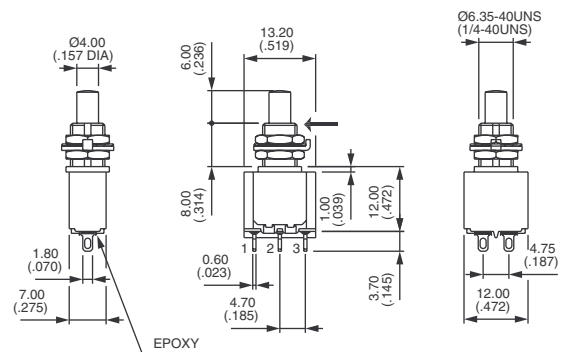
1-3

ON



1-2

MOM



Flatted bushing - solder lug terminals : 18700

→ Flat



Single pole
18735

Double pole
18745



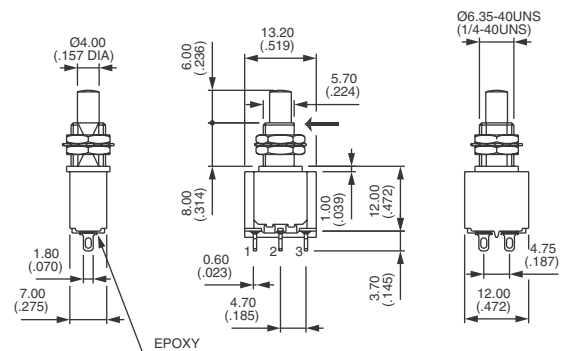
1-3

ON



1-2

MOM



Straight PC terminals : 18200

→ Keyway



Single pole
18235

Double pole
18245



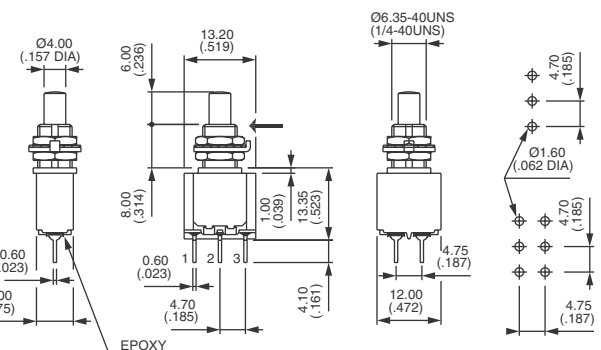
1-3

ON

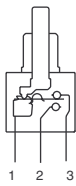


1-2

MOM

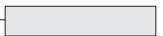
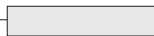
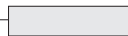


Plain bushing : 18200Y - 18200W - 18200WW



-

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ON

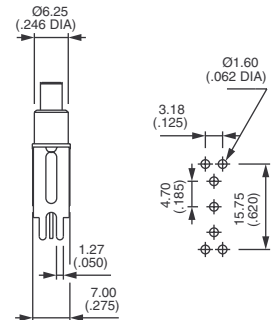
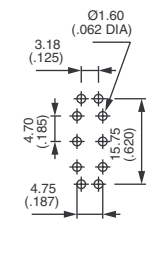


Figure 1: Dimensions of the 100 Series Connector. The figure shows three views of the connector: a front view on the left, a top view in the center, and a side view on the right. Dimensions are given in inches and millimeters. The front view shows a total height of 13.00 (.311) and a base width of 3.18 (.125). The top view shows a central pin diameter of Ø4.00 (.157 DIA) and a base diameter of Ø6.25 (.246 DIA). The side view shows a total height of 12.00 (.472) and a base width of 1.27 (.050). The connector is labeled 'EPOXY' and '100'.



ON

ON

Technical drawing of a 1/4-18 UNF-2B female threaded fitting. The drawing includes three views: a front view, a side view, and a top view. Dimensions are provided in inches and millimeters.

Front View Dimensions:

- Overall height: 12.70 (500)
- Threaded section height: 8.60 (338)
- Threaded section diameter: Ø0.25 (246 DIA)
- Threaded section length: 0.40 (015)
- Base diameter: Ø0.60 (023)
- Base length: 3.70 (145)
- Base to top of fitting: 7.00 (275)

Side View Dimensions:

- Overall height: 12.70 (500)
- Threaded section height: 8.60 (338)
- Threaded section diameter: Ø0.40 (157 DIA)
- Threaded section length: 0.40 (015)
- Base diameter: Ø0.60 (023)
- Base length: 4.70 (185)
- Base to top of fitting: 13.20 (519)

Top View Dimensions:

- Overall width: 5.08 (200)
- Threaded section width: 4.70 (185)
- Threaded section length: 12.70 (500)
- Base diameter: Ø1.60 (062 DIA)
- Base length: 3.81 (150)
- Base to top of fitting: 12.70 (500)

Material: EPOXY



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Right angle terminals - vertical : 18200WW



Single pole
18235WW

Double pole
18245WW



1-3

ON

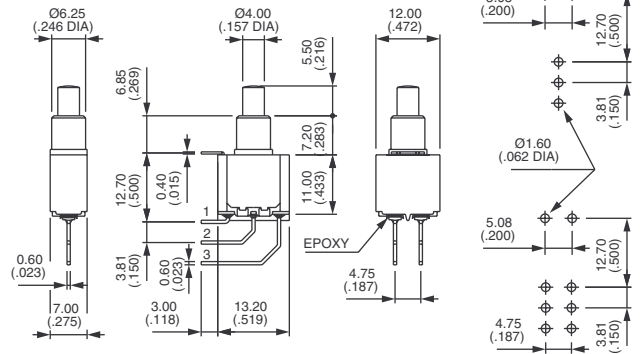


1-2

MOM

ON

MOM



CONTACT MATERIALS

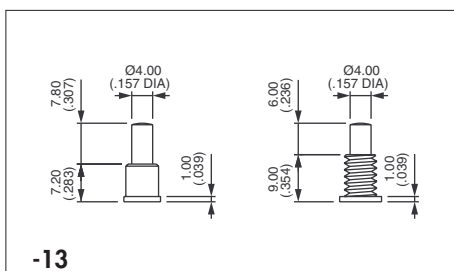


AD Silver, gold plated
CD Brass, gold plated

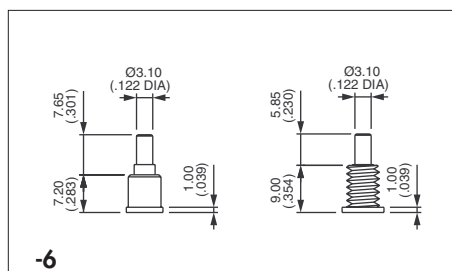
PLUNGERS



Dash compulsory before plunger code.



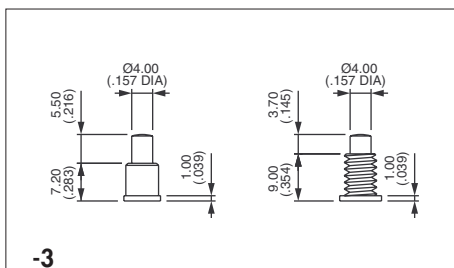
-13
Ø 4 (.157) - standard with threaded bushing



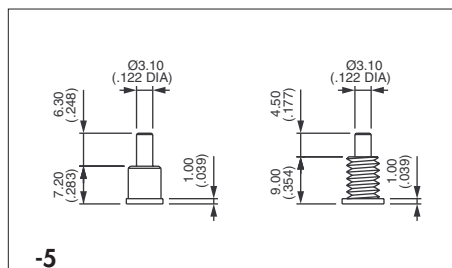
-6
Ø 3,1 (.122)



If plunger not specified, we supply former default option -13.



-3
Ø 4 (.157) - standard with plain bushing



-5
Ø 3,1 (.122)

Snap-action momentary pushbutton switches

OPTIONS



SPECIAL OPTIONS



F Tin dipped terminals (for PC terminals only)

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

B

Single pole

18235Y -2X624



ON



MOM



Double pole

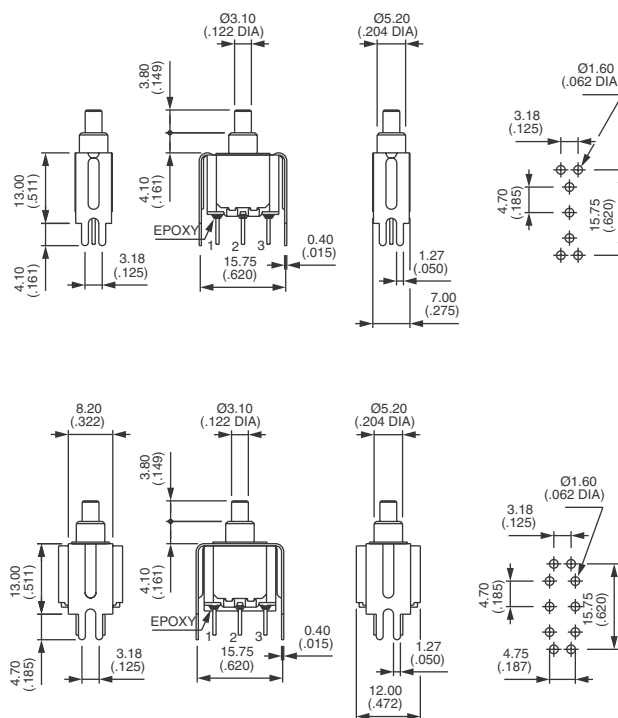
18245Y -2X624



ON



MOM



X662 Snap-in mounting - straight PC terminals



Single pole
18835 X662

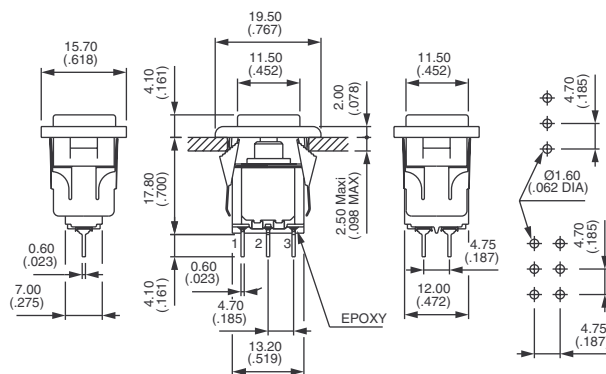
Double pole
18845 X662



ON



MOM

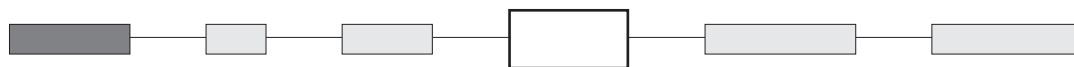




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SPECIAL OPTIONS (continued)

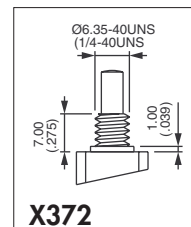


X371 Plain bushing $\varnothing 6,25$ mm (.246) (instead of standard threaded bushing).

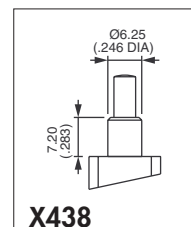
X372 Shorter threaded bushing $\varnothing 6,35$ (1/4). Height 7 mm (.274).

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

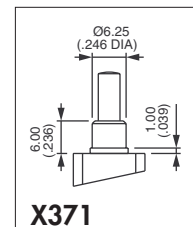
X438 Plain bushing $\varnothing 6,25$ mm (.246). Height 7,2 mm (.283) - without shoulder.



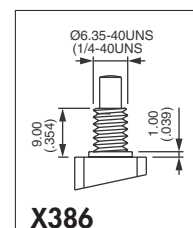
X372



X438

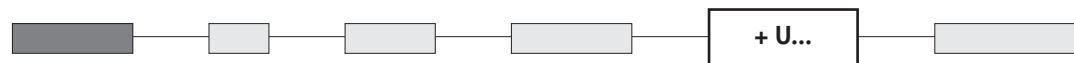


X371

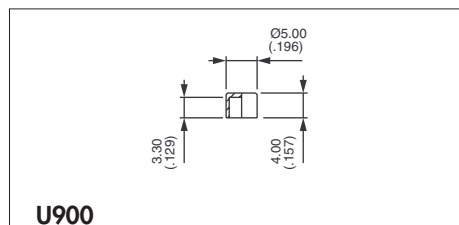


X386

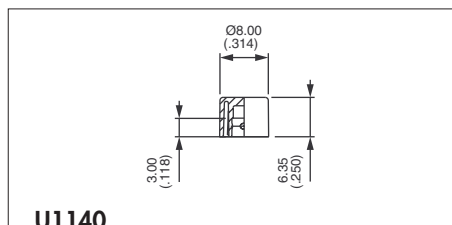
CAPS



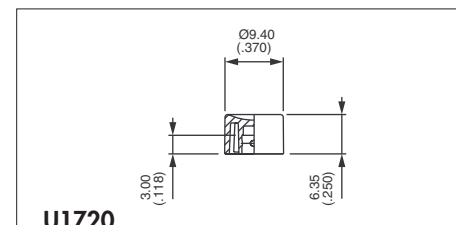
Caps for $\varnothing 4$ (.157) plungers (-13, -3)



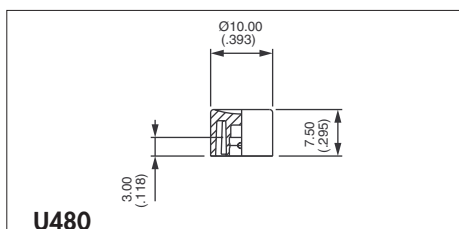
U900



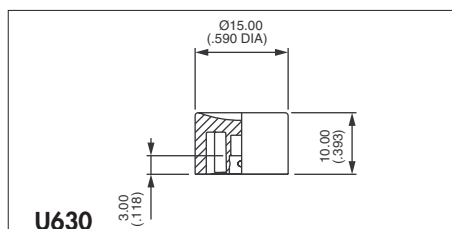
U1140



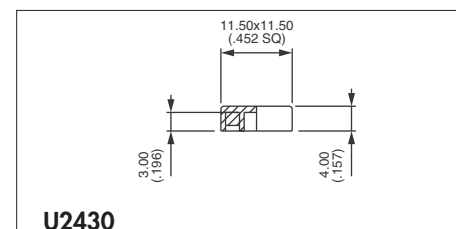
U1720



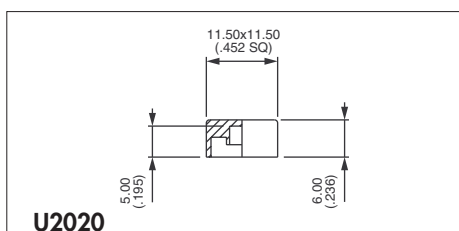
U480



U630



U2430



U2020

Square

Cap colours

Replace last "0" by number

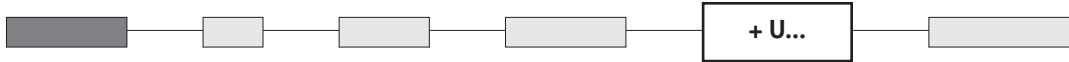
1	blue	5	yellow
1/4	dark blue	6	red
2	black	7	ivory
3	green	7/1	white
4	grey	9	orange

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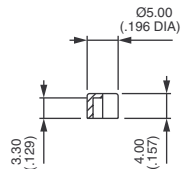
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OPTIONS
● ● ●

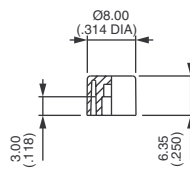
CAPS (continued)



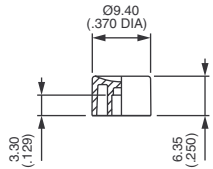
Caps for Ø 3,1 (.122) plungers (-5, -6)



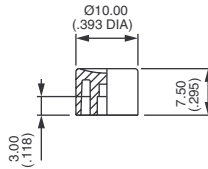
U2400



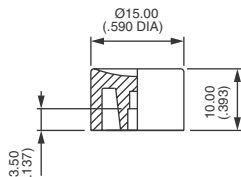
U2510



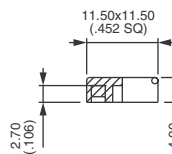
U2130



U2900

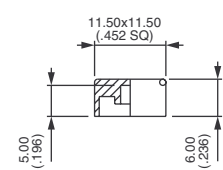


U3400



U910

Square



U2340

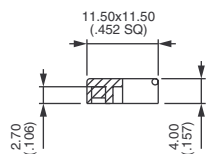
Square

Cap colours

Replace "0" by number

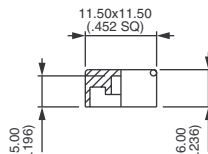
- | | |
|------------|-----------|
| 1 | blue |
| 1/4 | dark blue |
| 2 | black |
| 3 | green |
| 4 | grey |
| 5 | yellow |
| 6 | red |
| 7 | ivory |
| 7/1 | white |
| 9 | orange |

Caps for 18800 and 18800X662 models



U910

Square



U2340

Square



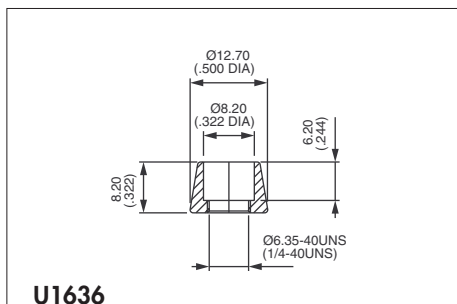
18000 series

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DRESS NUTS

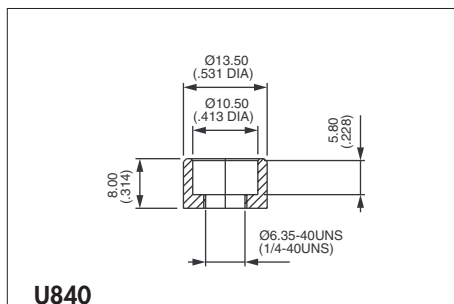
For models with threaded bushing (18500 - 18700 - 18200 - 18900)

Chrome plated - Order separately.



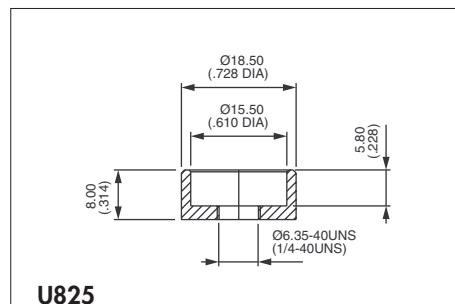
U1636

For caps U1140 and U2510



U840

For cap U480 and U2900



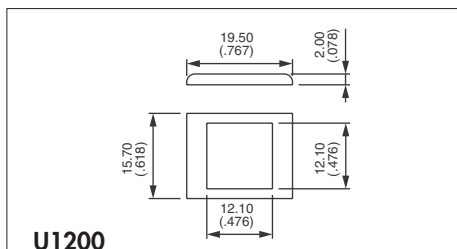
U825

For caps U630 and U3400

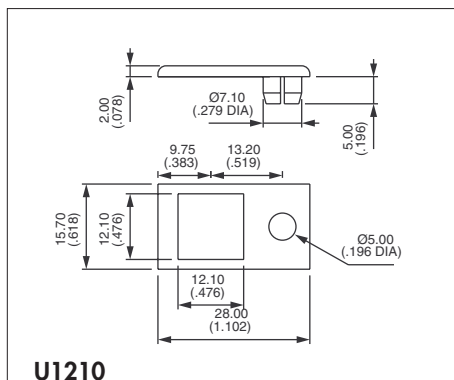
BEZELS



For snap-in models (18800 - 18800X662)



U1200

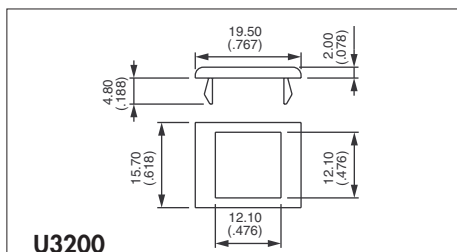


U1210

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

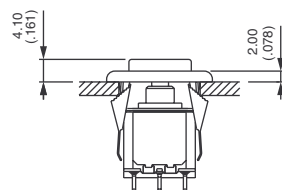
For bracket mounting models (18200Y & 18200YX624)



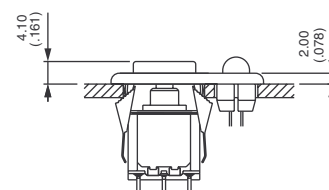
U3200

STANDARD PANEL MOUNTING

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



18800 + U910 + U1200



18800 + U910 + U1210