

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.

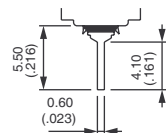
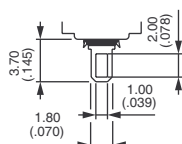


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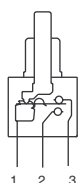


TERMINALS

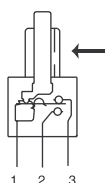


ELECTRICAL FUNCTION

→ KEYWAY



Plain bushing

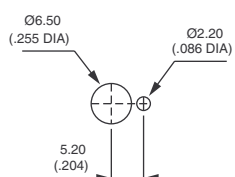


Threaded bushing

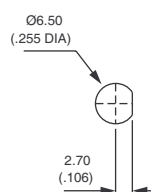


PANEL CUT-OUT

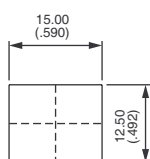
18500 - 18200



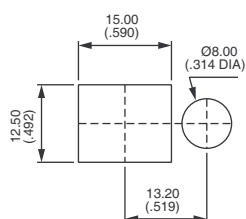
18700 - 18900



18800



With bezel U1200



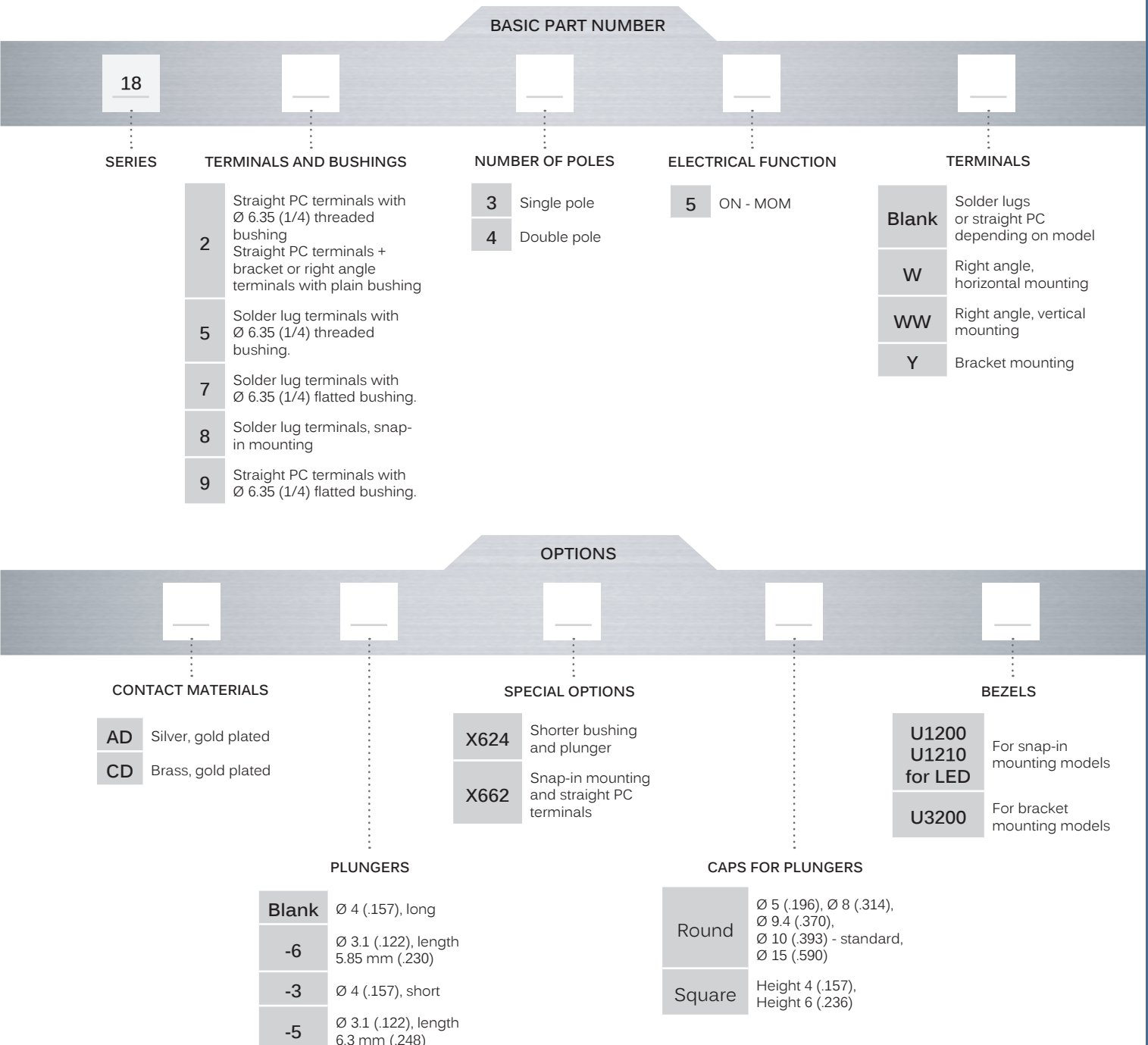
With bezel U1210 for LED

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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

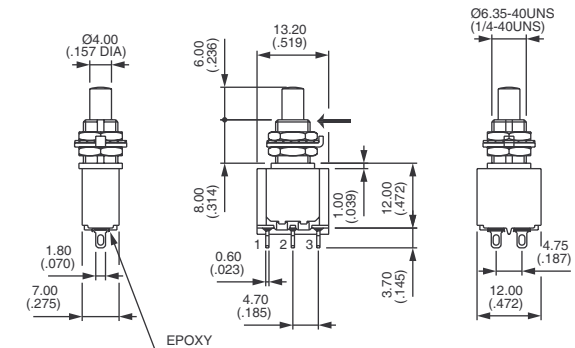
18945

ON

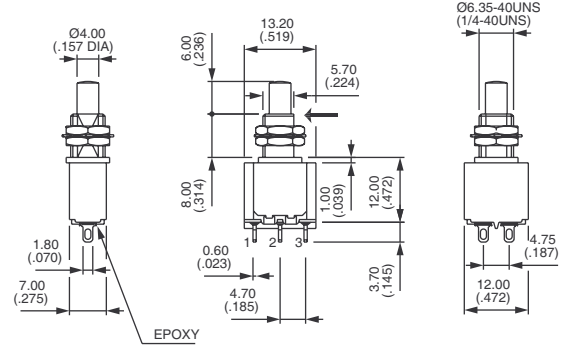
MOM

→ KEYWAY

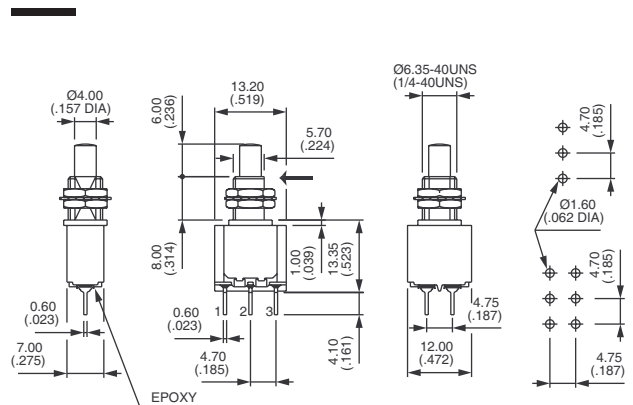
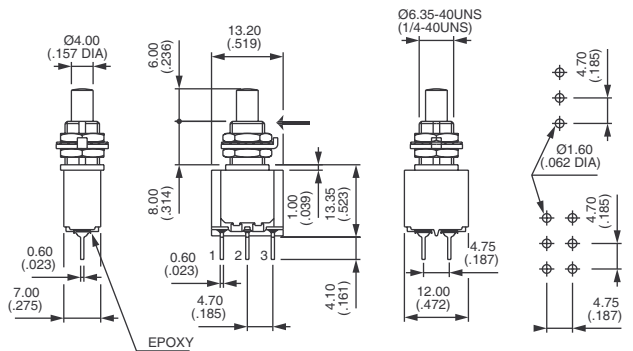
Shown with standard plunger



→ KEYWAY



→ KEYWAY



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PLAIN BUSHING - RIGHT ANGLE TERMINALS VERTICAL : 18200WW



Single pole

18235WW

1-3

ON

1-2

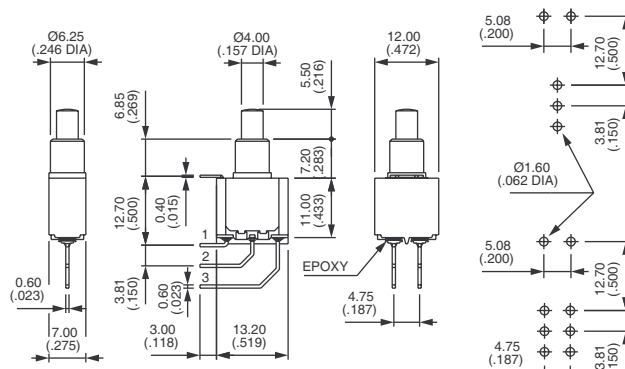
MOM

Double pole

18245WW

ON

MOM



CONTACT MATERIALS

BASIC P/N

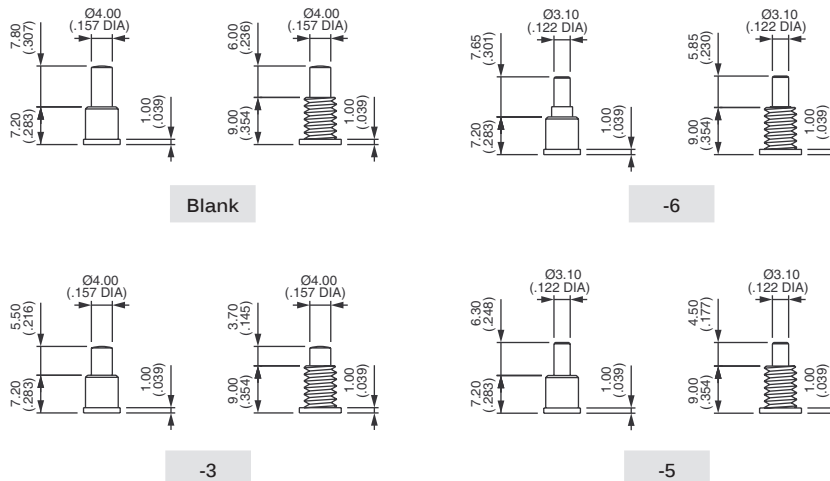
AD Silver, gold plated
CD Brass, gold plated

PLUNGERS

BASIC P/N

Dash compulsory before plunger code.

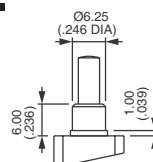
Blank Ø 4 (.157) - long
-6 Ø 3.1 (.122)
-3 Ø 4 (.157) - short
-5 Ø 3.1 (.122)



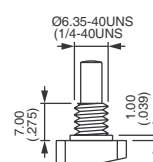
SPECIAL OPTIONS

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

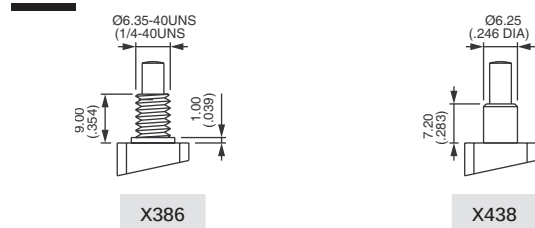
18000 series

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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



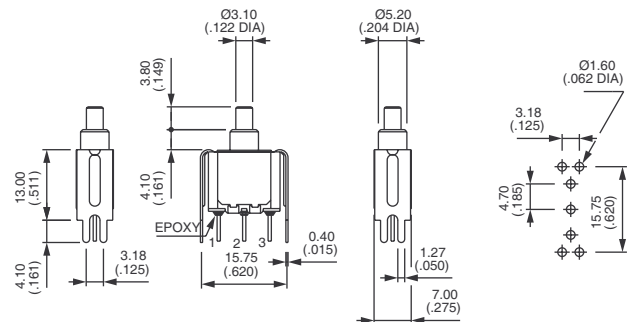
18235Y -2X624



ON



MOM



OPTION X624 - DOUBLE POLE



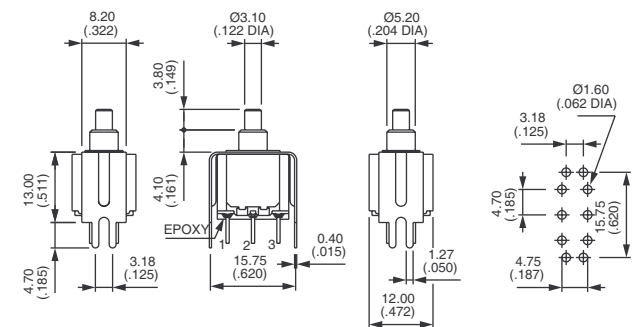
18245Y -2X624



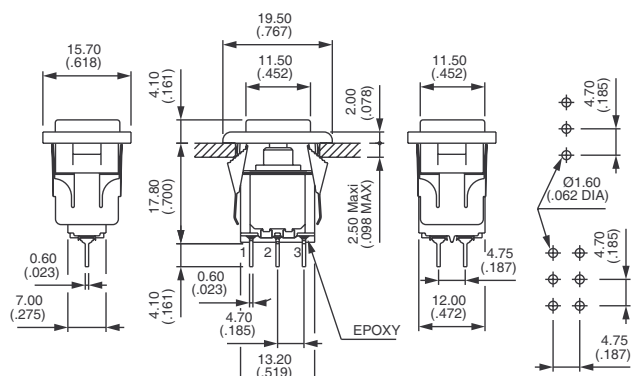
ON



MOM

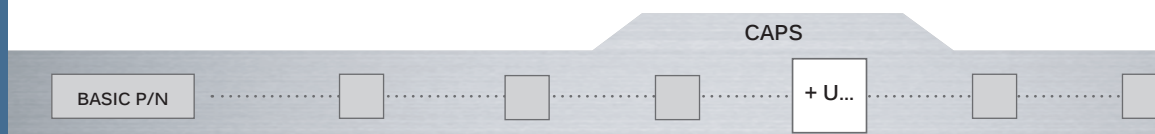


OPTION X662



18000 series

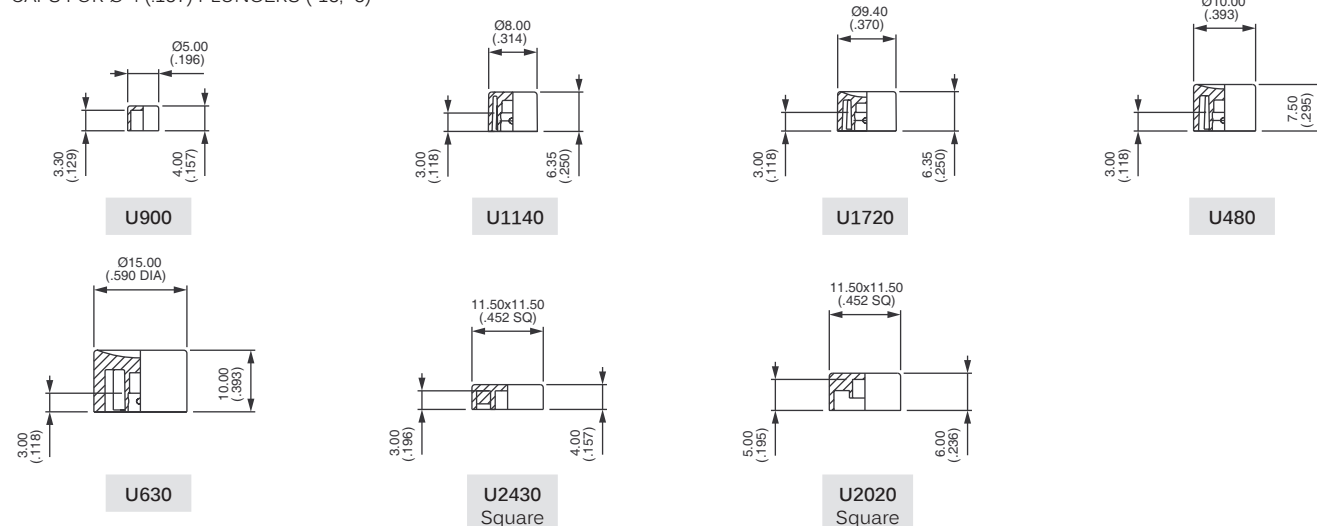
Snap-action momentary pushbutton switches



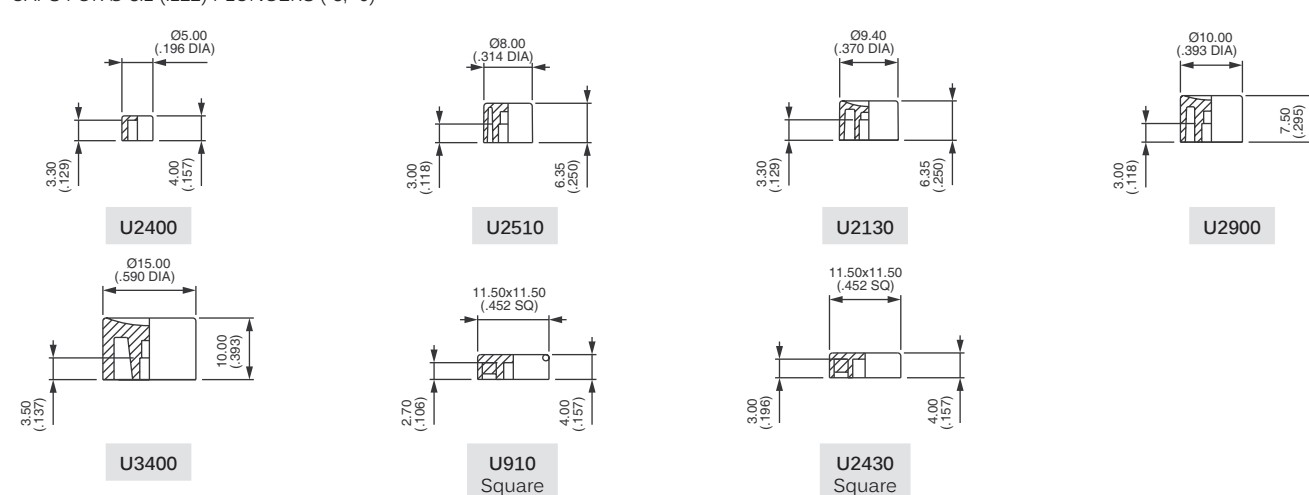
For cap colors, replace last "0" by number :

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

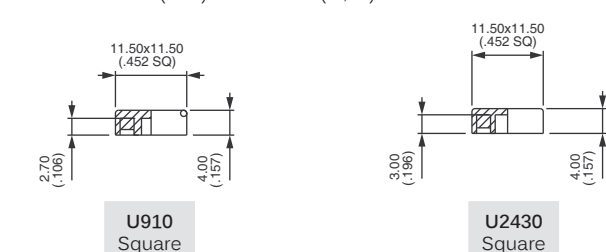
CAPS FOR Ø 4 (.157) PLUNGERS (-13, -3)



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



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



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BEZELS

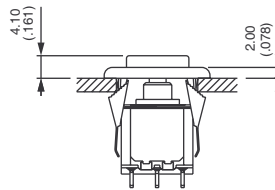


For cap colors, replace last "0" by number :

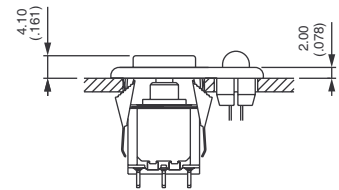
1	Blue	5	Yellow
1/4	Dark blue	6	Red
2	Black	7	Ivory
3	Green	7/1	White
4	Grey	9	Orange

STANDARD PANEL MOUNTING

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

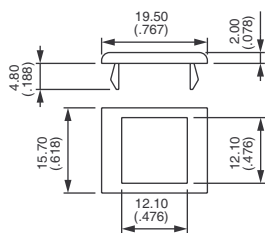


18800 + U910 + U1200



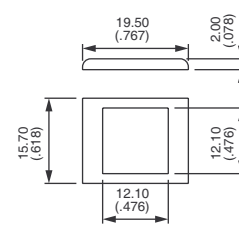
18800 + U910 + U1210

FOR BRACKET MOUNTING MODELS (18200Y & 18200YX624)

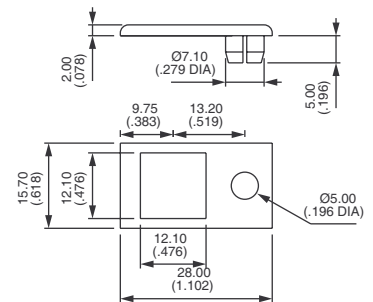


U3200

FOR SNAP-IN MODELS (18800 - 18800X662)



U1200



U1210
For LED Ø 5 - not supplied

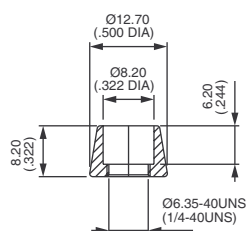
DRESS NUTS

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

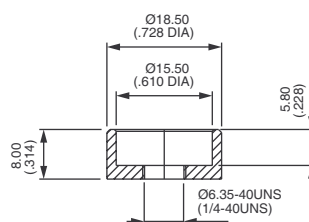
U1636 For caps U1140 and U2510

U840 For cap U480 and U2900

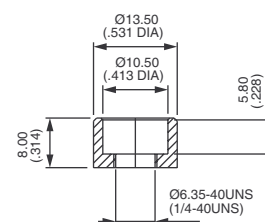
U825 For caps U630 and U3400



U1636



U840



U825