

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.

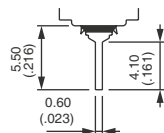
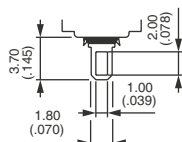


18000 series

Snap-action momentary pushbutton switches

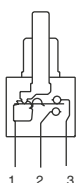


TERMINALS

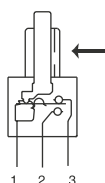


ELECTRICAL FUNCTION

→ KEYWAY



Plain bushing

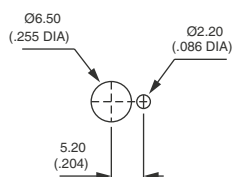


Threaded bushing

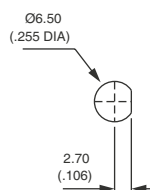


PANEL CUT-OUT

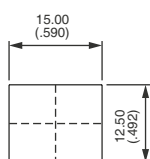
18500 - 18200



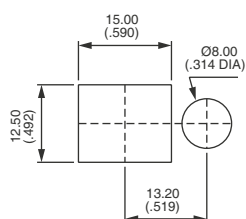
18700 - 18900



18800



With bezel U1200



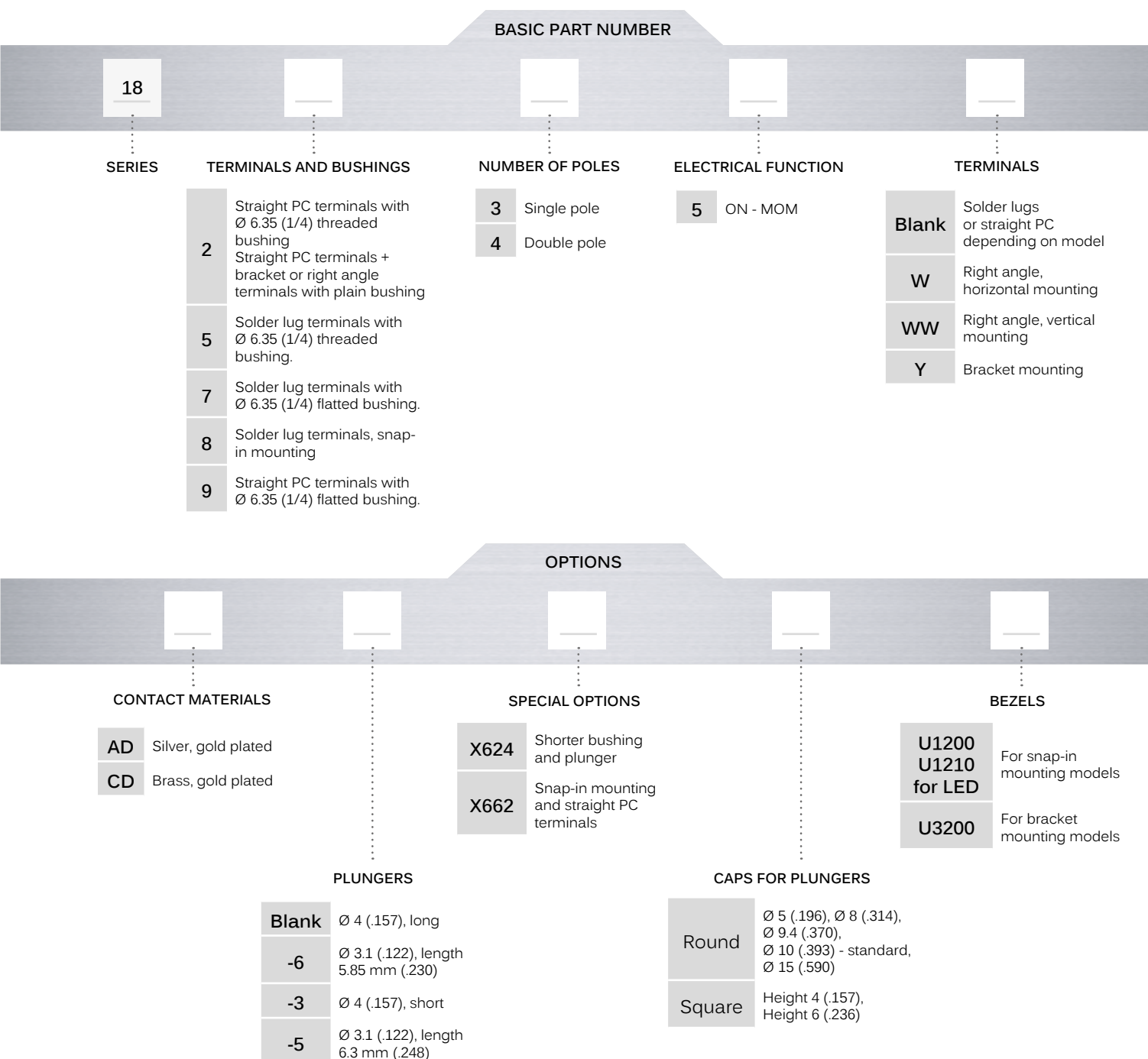
With bezel U1210 for LED

18000 series

Snap-action momentary pushbutton switches



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.

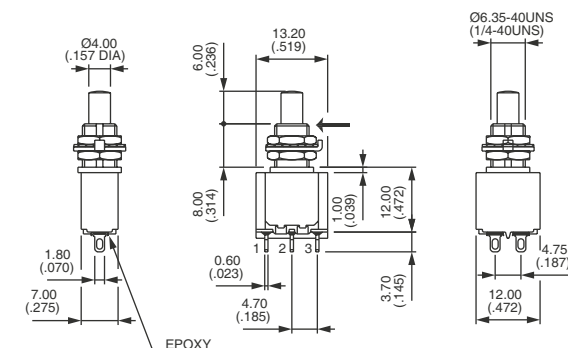
Snap-action momentary pushbutton switches

18545

1-3

1-2

MOM

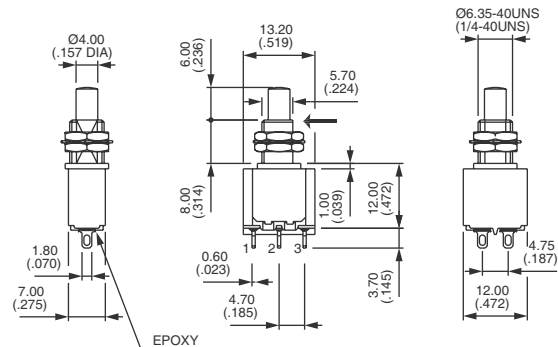


18745

1-3

1-2

MOM

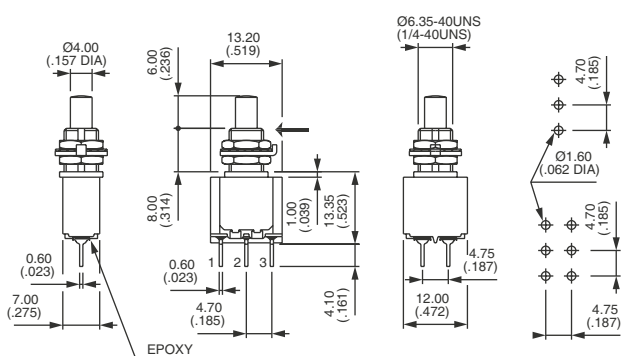


18245

1-3

1-2

MOM

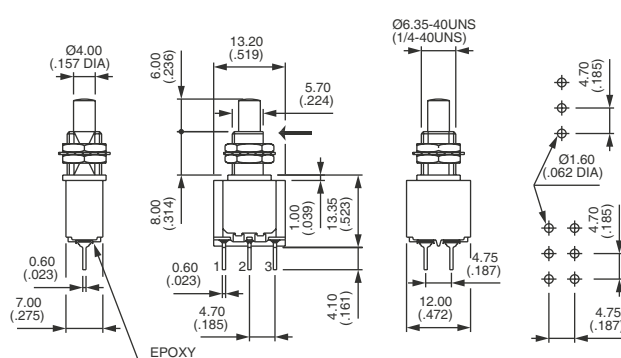


18945

1-3

1-2

MOM



18000 series

Snap-action momentary pushbutton switches

PLAIN BUSHING - RIGHT ANGLE TERMINALS VERTICAL : 18200WW



Single pole

18235WW

1-3

ON

1-2

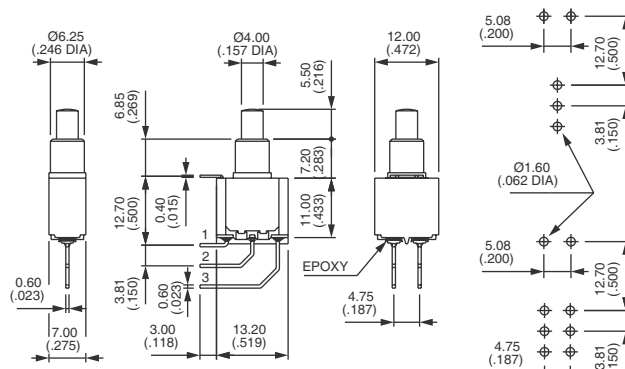
MOM

Double pole

18245WW

ON

MOM



CONTACT MATERIALS

BASIC P/N

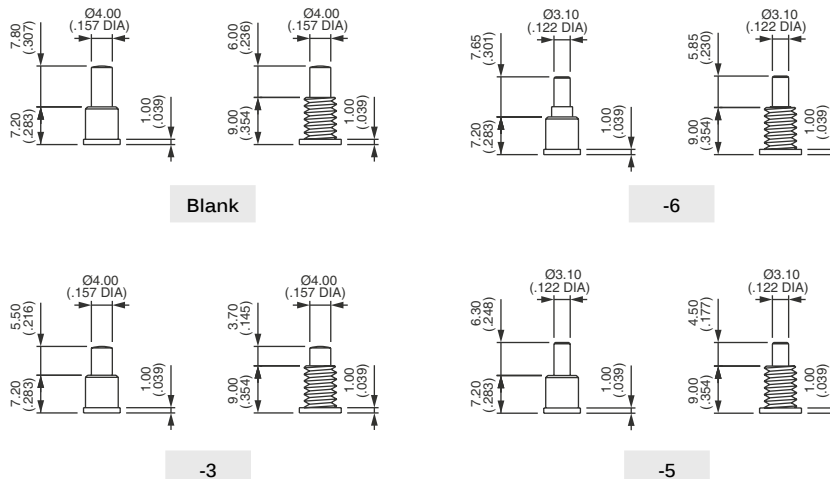
AD Silver, gold plated
CD Brass, gold plated

PLUNGERS

BASIC P/N

Dash compulsory before plunger code.

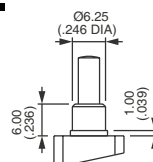
Blank Ø 4 (.157) - long
-6 Ø 3.1 (.122)
-3 Ø 4 (.157) - short
-5 Ø 3.1 (.122)



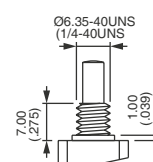
SPECIAL OPTIONS

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

Snap-action momentary pushbutton switches

BASIC P/N

-

MOM

ON



MOM

Technical drawing of a 1/4-28 x 1.50 inch 304 stainless steel cap screw. 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:

- Total Length: 1.300 (.511)
- Head Diameter: Ø3.10 (.122 DIA)
- Head Height: 0.40 (.015)
- Head Thickness: 0.380 (.149)
- Head Width: 0.410 (.161)
- Head to Thread Transition: 0.318 (.125)
- Thread Length: 1.27 (.050)
- Thread Diameter: Ø5.20 (.204 DIA)
- Thread Pitch: 1/4-28
- Thread Type: UNF
- Material: 304
- Finish: 2A
- Head Style: Hex
- Head Markings: 1, 2, 3
- Head Material: EPOXY

Side View Dimensions:

- Head Diameter: Ø1.60 (.062 DIA)
- Head Height: 0.318 (.125)
- Head Width: 0.470 (.185)
- Head to Thread Transition: 0.375 (.062)
- Thread Length: 1.27 (.050)
- Thread Diameter: Ø5.20 (.204 DIA)
- Thread Pitch: 1/4-28
- Thread Type: UNF
- Material: 304
- Finish: 2A
- Head Style: Hex
- Head Markings: 1, 2, 3
- Head Material: EPOXY

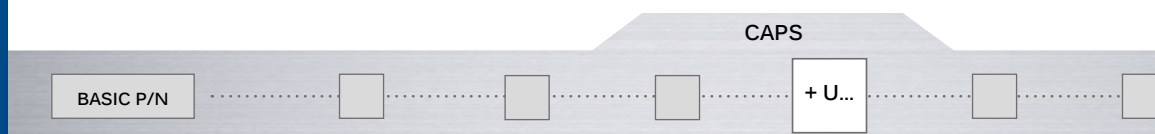
Top View Dimensions:

- Head Diameter: Ø1.60 (.062 DIA)
- Head Height: 0.318 (.125)
- Head Width: 0.470 (.185)
- Head to Thread Transition: 0.375 (.062)
- Thread Length: 1.27 (.050)
- Thread Diameter: Ø5.20 (.204 DIA)
- Thread Pitch: 1/4-28
- Thread Type: UNF
- Material: 304
- Finish: 2A
- Head Style: Hex
- Head Markings: 1, 2, 3
- Head Material: EPOXY

[illegible]

18000 series

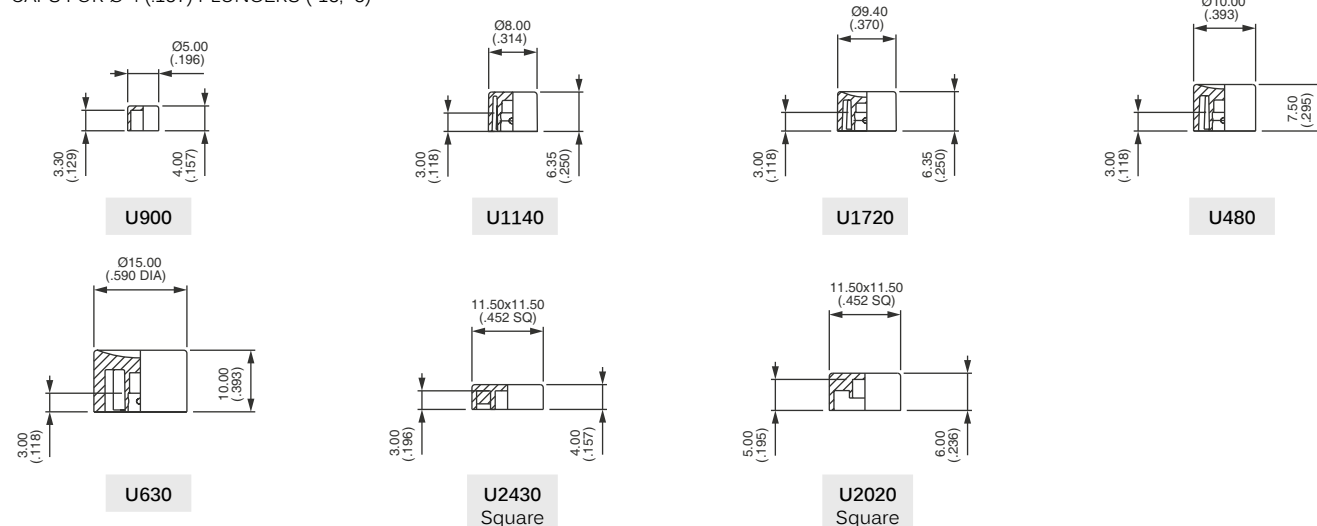
Snap-action momentary pushbutton switches



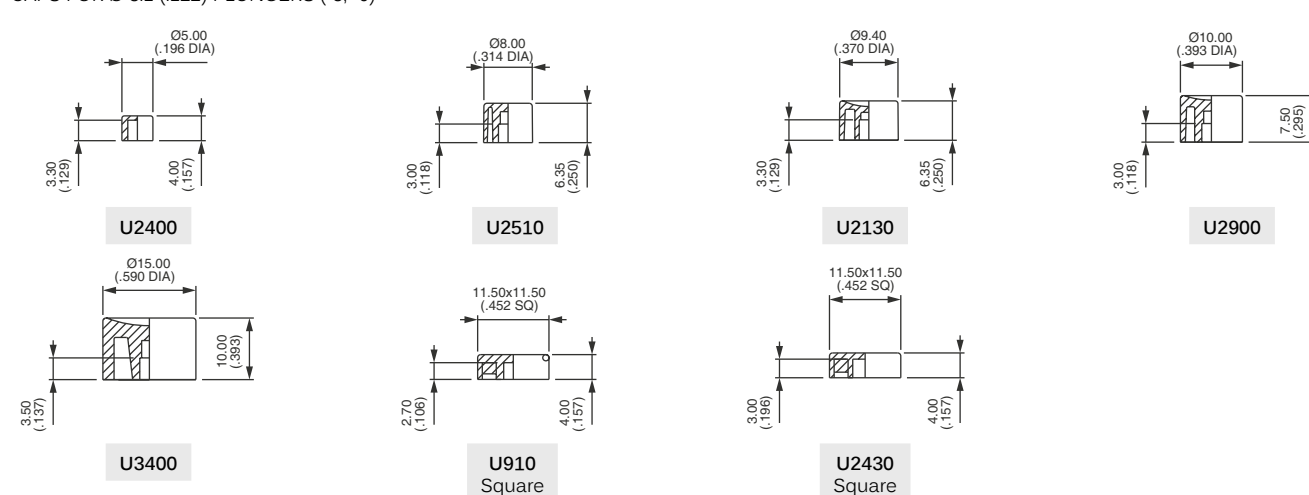
For cap colors, replace last "0" by number :

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

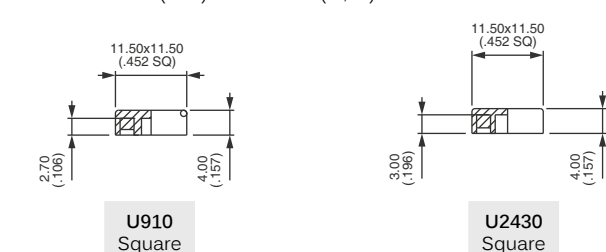
CAPS FOR Ø 4 (.157) PLUNGERS (-13, -3)



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



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



18000 series

Snap-action momentary pushbutton switches

BEZELS

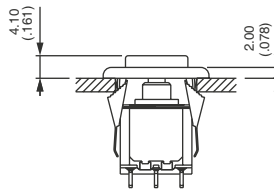


For cap colors, replace last "0" by number :

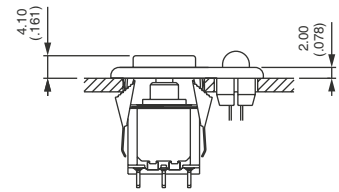
1	Blue	5	Yellow
1/4	Dark blue	6	Red
2	Black	7	Ivory
3	Green	7/1	White
4	Grey	9	Orange

STANDARD PANEL MOUNTING

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

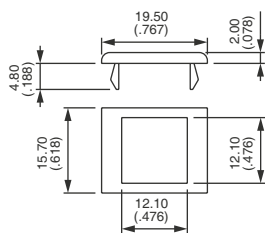


18800 + U910 + U1200



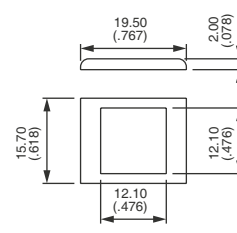
18800 + U910 + U1210

FOR BRACKET MOUNTING MODELS (18200Y & 18200YX624)

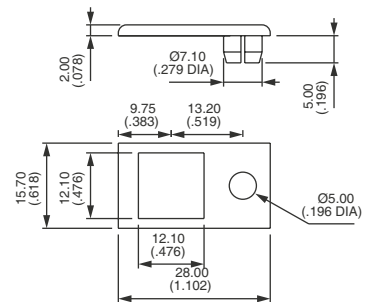


U3200

FOR SNAP-IN MODELS (18800 - 18800X662)



U1200



U1210
For LED Ø 5 - not supplied

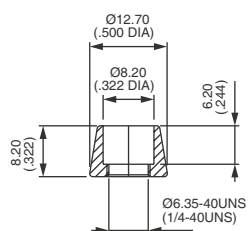
DRESS NUTS

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

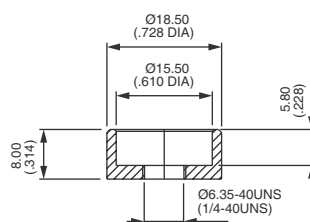
U1636 For caps U1140 and U2510

U840 For cap U480 and U2900

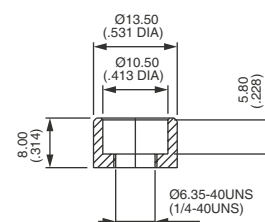
U825 For caps U630 and U3400



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

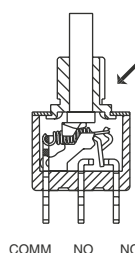
- Case : diallylphthalate (DAP)
- Actuator : glass filled polyester
- Bushing : brass, nickel plated
- Housing : stainless steel
- Contacts : silver
- Terminal seal : epoxy

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

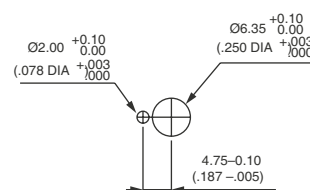


ELECTRICAL FUNCTION

→ KEYWAY



PANEL CUT-OUT



18000 series

Snap-action momentary pushbutton switches •
high currents

THREADED BUSHING - SINGLE POLE



18635A



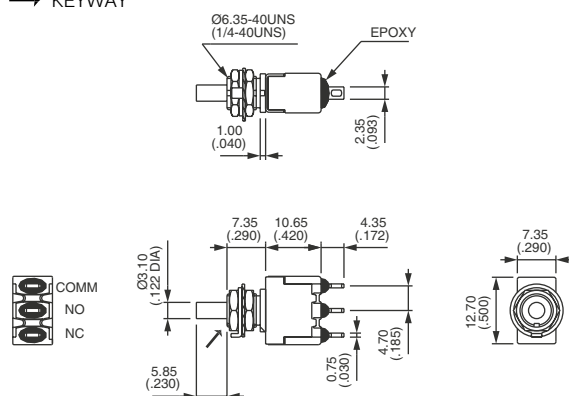
ON



MOM

Also available in double pole configuration.

→ KEYWAY



CAPS

BASIC P/N

+ U...

ROUND

U2400 $\varnothing 5$ (.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)

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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