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 (0.019)
- 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

TERMINTALS

ELECTRICAL FUNCTION

KEYWAY

Plain bushing

Threaded bushing

PANEL CUT-OUT

18500 - 18200

18700 - 18900

18800

With bezel U1200

With bezel U1210 for LED
### 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 (0.314) across flats, 1 locking ring, and 1 lockwasher. Standard and special hardware is presented in the "Hardware" section of website.
18000 series
Snap-action momentary pushbutton switches

**THREADED BUSHING**
SOLDER LUG TERMINALS : 18500

![Diagram](image1)

- Single pole
  - 18535
  - ON MOM
- Double pole
  - 18545
  - ON MOM

**FLATTED BUSHING**
SOLDER LUG TERMINALS : 18700

![Diagram](image2)

- Single pole
  - 18735
  - ON MOM
- Double pole
  - 18745
  - ON MOM

**THREADED BUSHING**
STRAIGHT PC TERMINALS : 18200

![Diagram](image3)

- Single pole
  - 18235
  - ON MOM
- Double pole
  - 18245
  - ON MOM

**FLATTED BUSHING - STRAIGHT PC TERMINALS : 18900**

![Diagram](image4)

- Single pole
  - 18935
  - ON MOM
- Double pole
  - 18945
  - ON MOM
18000 series
Snap-action momentary pushbutton switches

SNAP-IN MOUNTING
SOLDER LUG TERMINALS : 18800

Available with straight PC terminals : see X662 under “Special options”

STRAIGHT PC TERMINALS
BRACKET MOUNTING - SINGLE POLE : 18230Y

STRAIGHT PC TERMINALS
BRACKET MOUNTING - DOUBLE POLE : 18240Y

RIGHT ANGLE TERMINALS
HORIZONTAL : 18200W
18000 series
Snap-action momentary pushbutton switches

PLAIN BUSHING - RIGHT ANGLE TERMINALS
VERTICAL : 18200WW

Single pole
18235WW ON MOM

Double pole
18245WW ON MOM

CONTACT MATERIALS

AD Silver, gold plated
CD Brass, gold plated

PLUNGERS

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

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).
18000 series
Snap-action momentary pushbutton switches

X386  Threaded bushing Ø 6.35 mm (1/4) to replace plain bushing on models W - WW and Y.

X438  Plain bushing Ø 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

OPTION X624 - DOUBLE POLE

OPTION X662
18000 series
Snap-action momentary pushbutton switches

For cap colors, 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

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)
For cap colors, 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

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

FOR SNAP-IN MODELS (18800 - 18800X662)

FOR BRACKET MOUNTING MODELS (18200Y & 18200YX624)

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
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

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THREADED BUSHING - SINGLE POLE

Also available in double pole configuration.

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)

For cap dimensions, see “Caps for Ø 3.1 (.122) plungers” on the preceding pages.