## 13000

### Professional quick-break momentary pushbutton switches

Distinctive features and specifications

UG1006-A





- PC and panel mount models
- Bushing Ø 6,35 (1/4) and 11,9 (15/32)
- UL and CECC approved

#### **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load:
  silver contacts (A-AD2): 2A 250VAC 4A 125VAC 4A 30VDC
- gold plated contacts (CD): 100mA 30V
  Minimum load (AD2-CD contacts): 10mA 50mV, 10µA 5V min.
- Initial contact resistance :  $10 \text{ m}\Omega$  max.
- Insulation resistance :  $1.000 \text{ M}\Omega$  min. at 500 VDC
- Dielectric strength:
  - 1.000 Vrms 50 Hz min. between terminals
  - 2.000 Vrms 50 Hz min. between poles and between terminals and frame
- Contact bounce: 2 ms max.
- Electrical life :

Contacts	Max. current/voltage rating	Number of cycles	
Α	2A 250VAC - 4A 125VAC - 4A 30VDC	50.000	
AD2	2A 250VAC - 4A 125 VAC - 4A 30VDC (gold plating : 100mA 30VDC max.)	20.000	
CD	100mA 30VDC	50.000	
	Low level or mechanical life	150.000	

#### **MATERIALS**

- Case : diallylphthalate (DAP) Actuator: brass, nickel plated Bushing: brass, nickel plated
- Housing: brass, nickel plated • Contacts : A : silver
- AD2: silver, gold plated (2 micron gold) CD: brass, gold plated
- Terminal seal: epoxy

Note: AD2 contacts can be used for high level applications. In this case, the gold layer is considered only as a protection against oxidation during storage.

#### **GENERAL SPECIFICATIONS**

- Torque: 1,25 Nm (.922 Ft.lb) max. applied to nut
- Standard panel thickness: 2 mm (.078) max.
- Total travel : 2 mm (.078)
- Operating temperature :
  - -40°C to +85°C

## Professional quick-break momentary pushbutton switches

Specifications

#### **RELIABILITY - RUN-IN TEST**

Upon request, each individual switch can be submitted to a low level run-in test of 50 or 250 cycles to ensure suitability for special applications requiring a very high level of reliability (military, space,etc.).

#### **AGENCY APPROVALS**





CECC 96401-001

Designed to MIL specifications

Availability:

UL: all models with silver or gold plated silver contacts CECC: consult factory for details of approved models.

**Marking**: to order switches marked UL or CECC, complete appropriate box of ordering format.

**Dimensions**: first dimensions are in mm while inches are shown as bracketted numbers.



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: 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: 50 pieces.

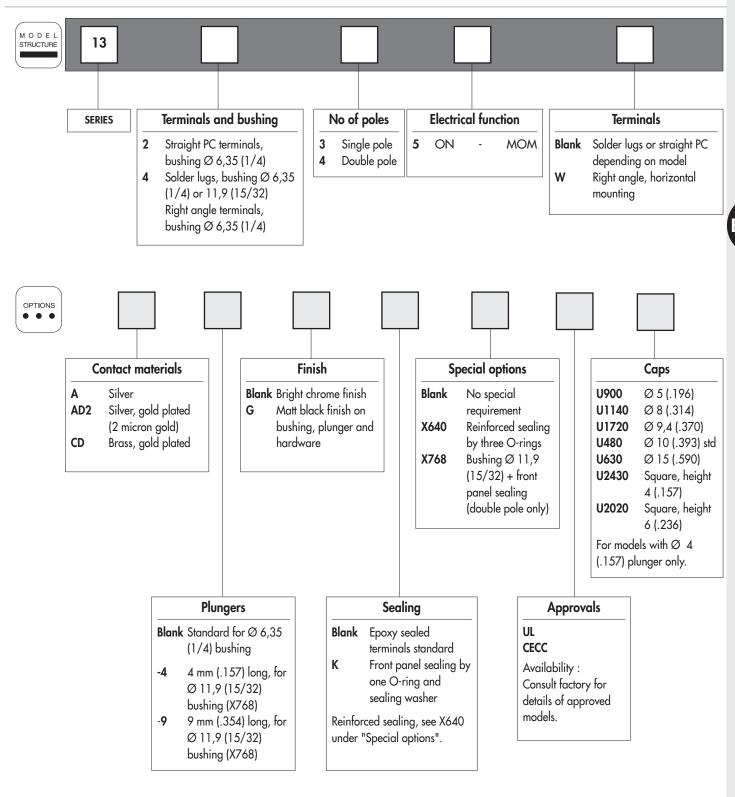
APEM2 Switch低温按钮开关价格查询中国统一热线 4006-022-002

APEM5高温按钮开关cnr@tooye.net

В

#### Professional quick-break momentary pushbutton switches

**Overview** 



(i)

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

#### **ABOUT THIS SERIES**

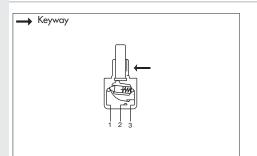
On the following pages, you will find successively:

- model structure of switches
- options in the same order as in above chart

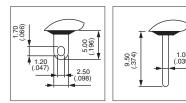
# STRUCTURE

### Professional quick-break momentary pushbutton switches

Solder lug terminals: 13400 - Straight PC terminals: 13200

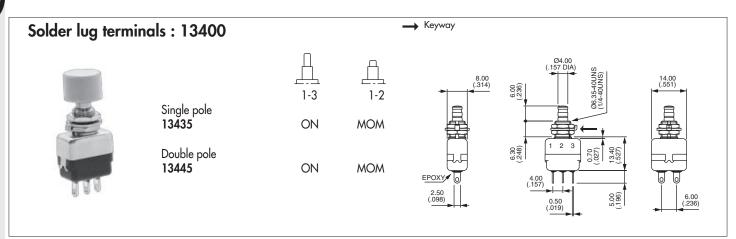


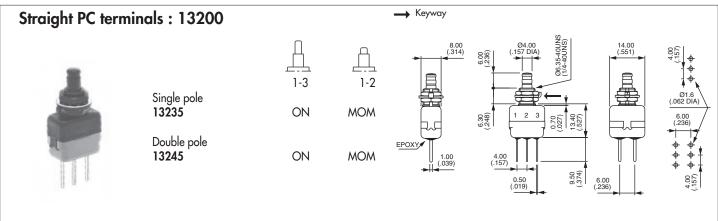
- Threaded bushing Ø 6,35 mm (1/4)
- Epoxy sealed terminals standard

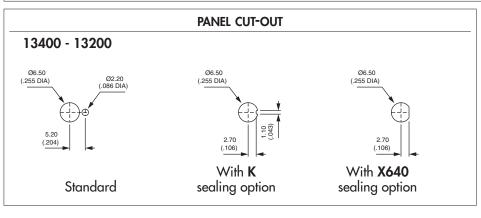


**MODEL** 

**STRUCTURE** 







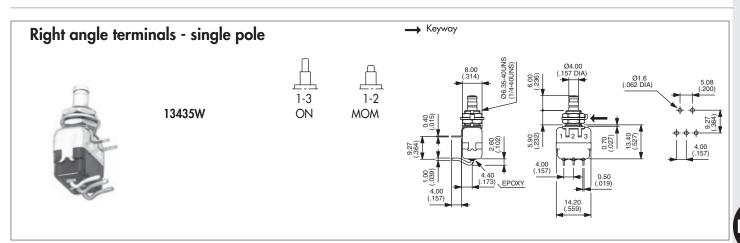
APEM2 Switch低温按钮开关价格查询中国统一热线 4006-022-002

APEM5高温按钮开关cnr@tooye.net



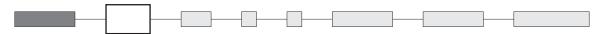
## Professional quick-break momentary pushbutton switches

Right angle terminals: 13400W



Panel cut-out, see previous page.

#### **CONTACT MATERIALS**

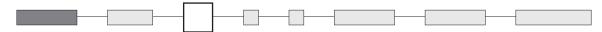


Silver

AD2 Silver, gold plated (2 micron gold) CD

Brass, gold plated

#### **PLUNGER**



Dash compulsory before plunger code.

**Blank** Standard plunger for Ø 6,35 (1/4) bushing

- 4 mm (.157) long plunger for Ø 11,9 (15/32) bushing (X768 option) -4
- 9 mm (.354) long plunger for Ø 11,9 (15/32) bushing (X768 option) -9

### Professional quick-break momentary pushbutton switches



**FINISH** 



**Blank** Bright chrome finish

Matt black finish on bushing, actuator and hardware G

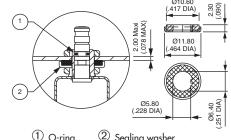
**SEALING** 



K Front panel sealing by one O-ring and sealing washer. Protects the switch against water and dust.

Panel seal withstands 1 bar pressure and remains sealed even when switch is operated.

Reinforced sealing: see X640 under "Special options".



① O-ring 2 Sealing washer

SPECIAL OPTIONS

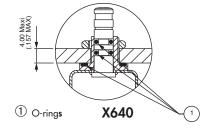


X640 Front panel sealing by three O-rings. Flatted bush for precise orientation. Protects the switch against water and dust.

Panel seal withstands 1 bar pressure and remains sealed even when switch is operated.

Available on models with  $\emptyset$  6,35 (1/4) bushing only.

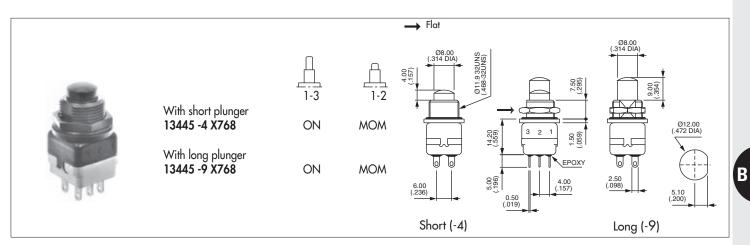
X935 C-ring on plunger for positive stop



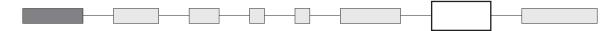


## Professional quick-break momentary pushbutton switches

**Sealed switch with \emptyset 11,9 (15/32) flatted bushing**. Chrome plated actuator. Solder lug terminals, double pole. Contact and finish options available. X768



#### **AGENCY APPROVALS**



UL

**CECC** CECC 96401-001

Availability:

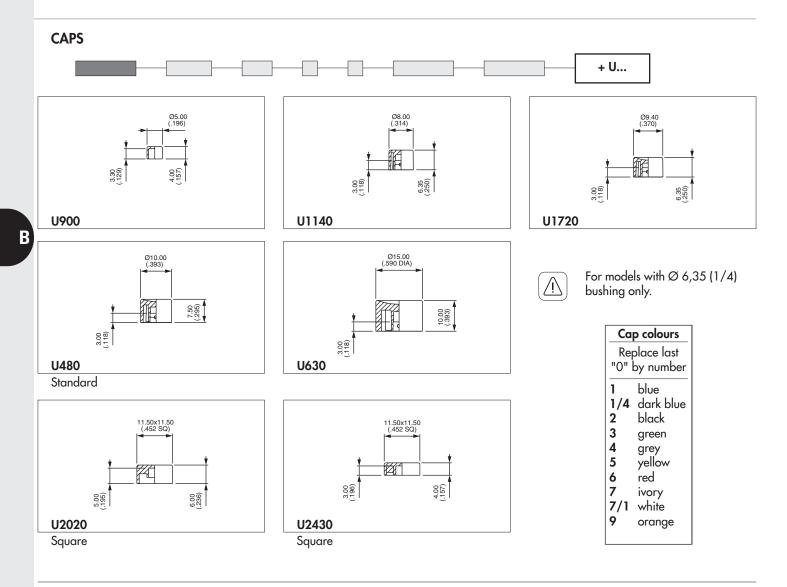
UL: all models with silver or gold plated silver contacts CECC: consult factory for details of approved models.

Marking: to order switches marked UL or CECC, please complete above box with desired approval.

Blank: no agency approval required.

## Professional quick-break momentary pushbutton switches



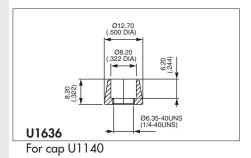


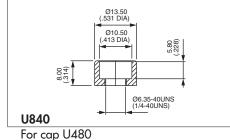
#### **DRESS NUTS**

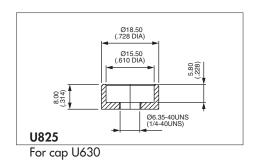
Chrome plated

 $\left[ \overline{\mathbf{\dot{V}}} \right]$ 

For models with  $\emptyset$  6,35 (1/4) bushing only.







Dress nuts are to be ordered separately.

APEM2 Switch低温按钮开关价格查询中国统一热线 4006-022-002

APEM5高温按钮开关cnr@tooye.net