Professional quick-break momentary pushbutton switches

Distinctive features and specifications



PC and panel mount models

UG1410A-R1

- ☐ 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): 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 M Ω min. at 500VDC
- 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	4A 30VDC	50.000	
AD2	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

The company reserves the right to change specifications without notice.

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



2A 125VAC/250VAC



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 bracketed 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

Standard and special hardware available are presented in section I.

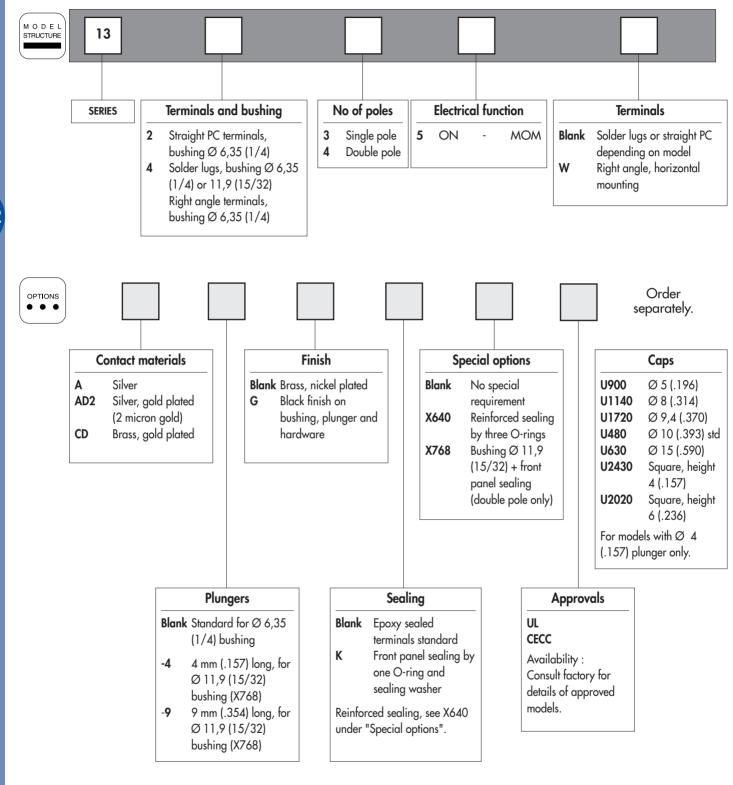


Packaging unit: 50 pieces.

APEM B2-45 www.apem.com

Professional quick-break momentary pushbutton switches

Overview





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:

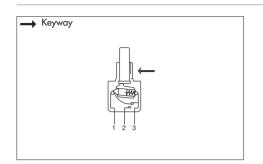
- model structure of switches
- options in the same order as in above chart

B2-46 www.apem.com APEM

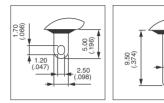


Professional quick-break momentary pushbutton switches

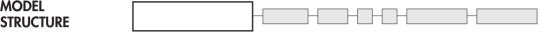
Solder lug terminals : 13400 - Straight PC terminals : 13200

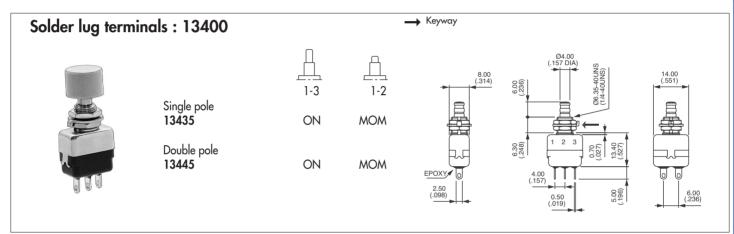


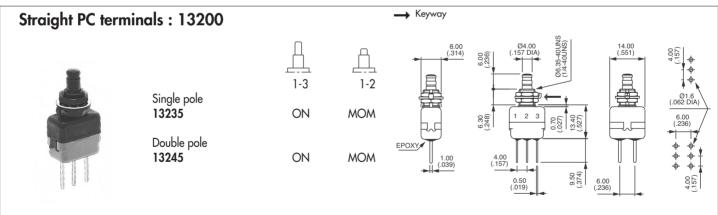
- Threaded bushing Ø 6,35 mm (1/4)
- Epoxy sealed terminals standard

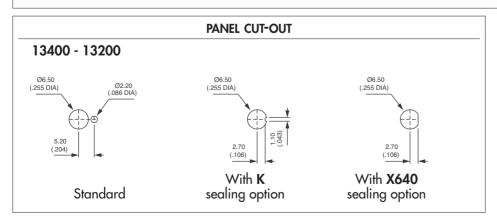










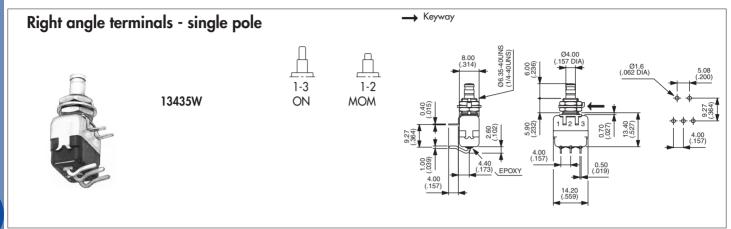


APEM B2-47 www.apem.com



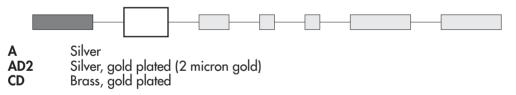
Professional quick-break momentary pushbutton switches

Right angle terminals: 13400W

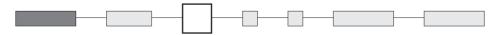


Panel cut-out, see previous page.

CONTACT MATERIALS



PLUNGER



Dash compulsory before plunger code.

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

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

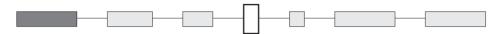
B2

B2-48



Professional quick-break momentary pushbutton switches

FINISH



Blank Bright chrome finish

G Black finish on bushing, actuator and hardware

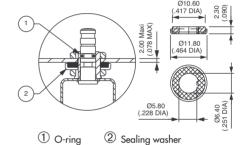
SEALING



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".



SPECIAL OPTIONS

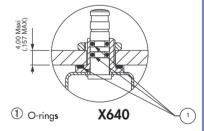


X640 Front panel sealing by three O-rings. Flatted bush for precise orientation. Protects the switch against water and dust.

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

Available on models with Ø 6,35 (1/4) bushing only.

X935 C-ring on plunger for positive stop

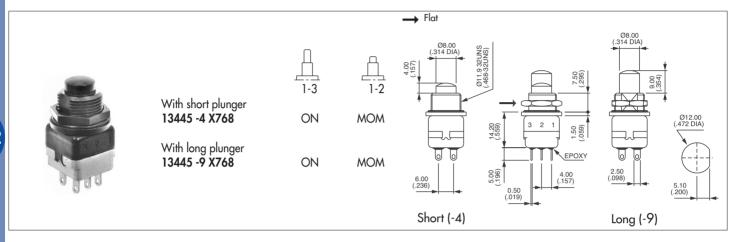




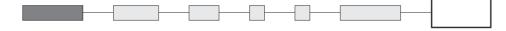
Professional quick-break momentary pushbutton switches

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

Security cap for this model: see section I.



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.

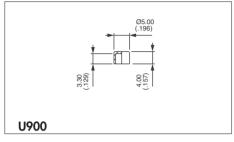
Blank: no agency approval required.

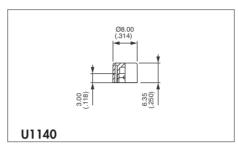


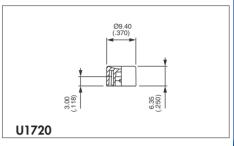
Professional quick-break momentary pushbutton switches

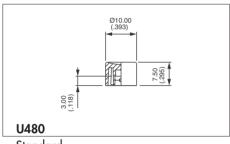
CAPS

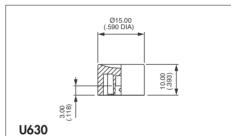
Order separately.

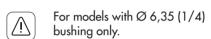


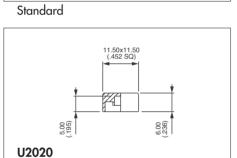


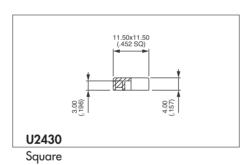














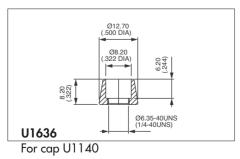
DRESS NUTS

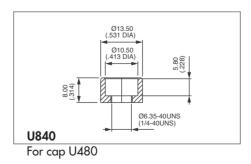
Square

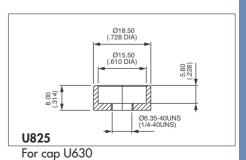
Chrome plated



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







Dress nuts are to be ordered separately.

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