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

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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.

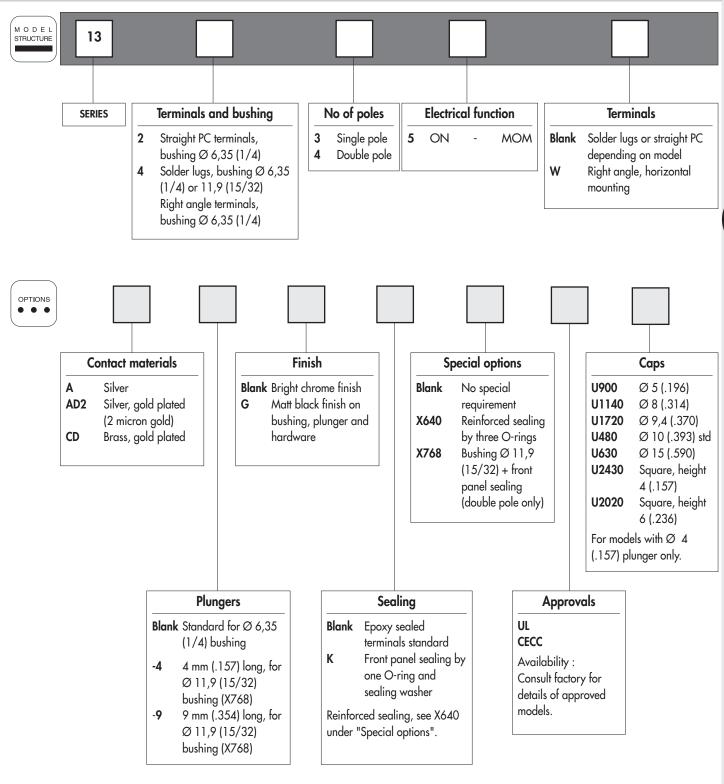
Standard and special hardware available are presented in section I.



Packaging unit: 50 pieces.

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

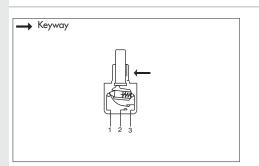
On the following pages, you will find successively:

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

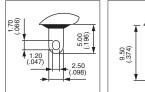
Professional quick-break momentary pushbutton switches

Solder lug terminals : 13400 - Straight PC terminals : 13200



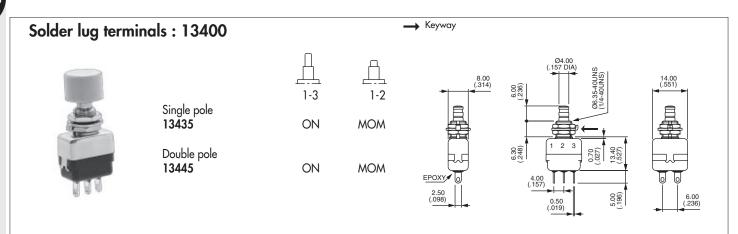


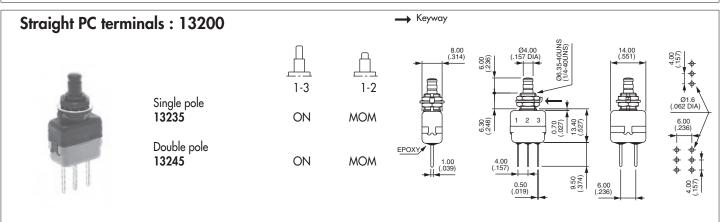
- Threaded bushing Ø 6,35 mm (1/4)
- Epoxy sealed terminals standard

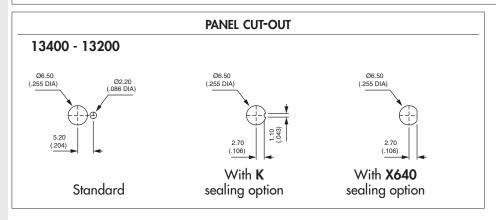




MODEL STRUCTURE





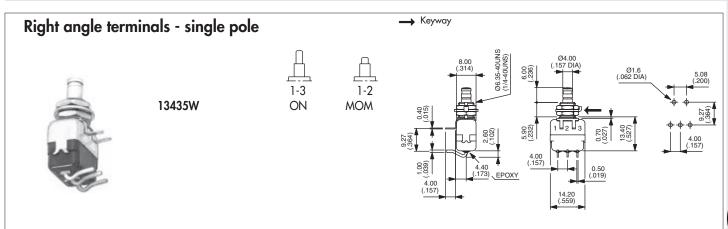


B-102



Professional quick-break momentary pushbutton switches

Right angle terminals : 13400W



Panel cut-out, see previous page.

CONTACT MATERIALS



A Silve

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

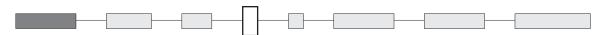
- -4 4 mm (.157) long plunger for Ø 11,9 (15/32) bushing (X768 option)
- -9 9 mm (.354) long plunger for Ø 11,9 (15/32) bushing (X768 option)

APEM www.apem.com B-103

Professional quick-break momentary pushbutton switches



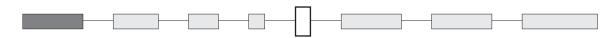
FINISH



Blank Bright chrome finish

G Matt black finish on bushing, actuator and hardware

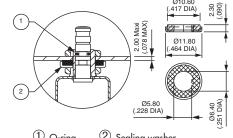
SEALING



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".



① O-ring

② Sealing washer

SPECIAL OPTIONS

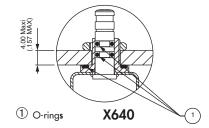


X640 Front panel sealing by three O-rings. Flatted bush for precise orientation. Protects the switch against water and dust.

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.

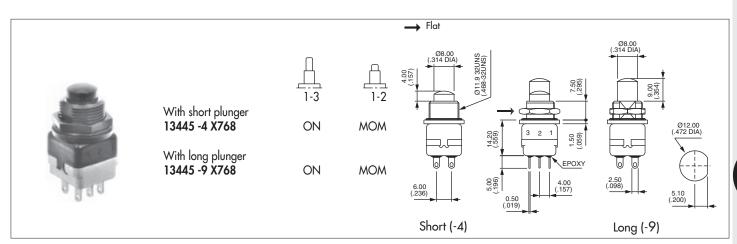
X935 C-ring on plunger for positive stop



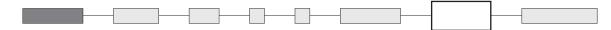


Professional quick-break momentary pushbutton switches

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.

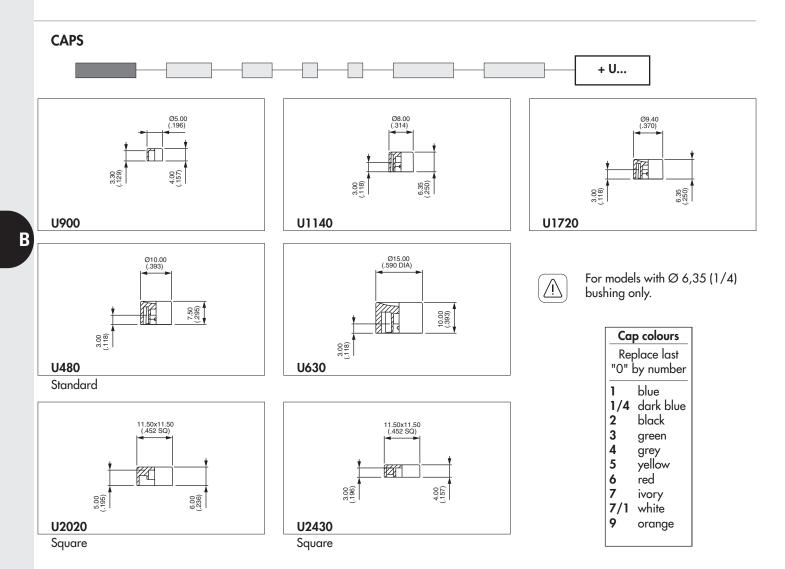
Marking: to order switches marked UL or CECC, please complete above box with desired approval.

Blank: no agency approval required.

B-105 **APEM** www.apem.com

Professional quick-break momentary pushbutton switches



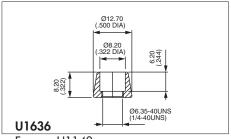


DRESS NUTS

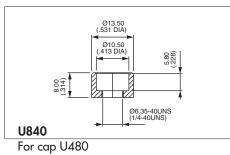
Chrome plated

\j\

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



For cap U1140



5.80 .228) Ø6.35-40UNS (1/4-40UNS) U825

For cap U630

Dress nuts are to be ordered separately.

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Other Similar products are found below:

8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7190K101 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 95-313.000 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBMMNGA A22NZBNANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7310 A3A-7340 A3U-TMW-A2C-5M A595