Professional quick-break momentary pushbutton switches

Distinctive features and specifications



☐ 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 mΩ max.
 Insulation resistance : 1.000 MΩ 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	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, chrome 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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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/PREFERENTIAL LISTS





CECC 96401-001

QPL (Europe only) MUAHAG

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.
Preferential lists do not appear on the switches.

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 lockwasher.

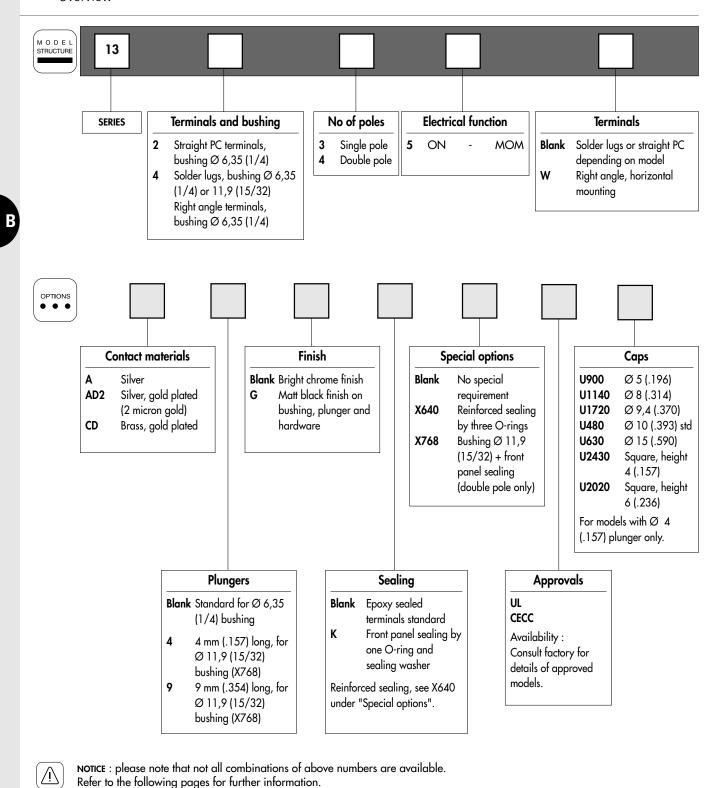
Standard and special hardware available are presented in section I.



Packaging unit: 50 pieces.

Professional quick-break momentary pushbutton switches

Overview



ABOUT THIS SERIESOn the following pages, you will find successively:

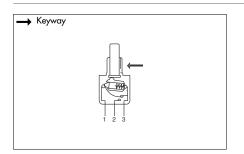
- model structure of switches
- options in the same order as in above chart

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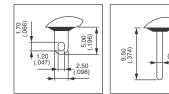


Professional quick-break momentary pushbutton switches

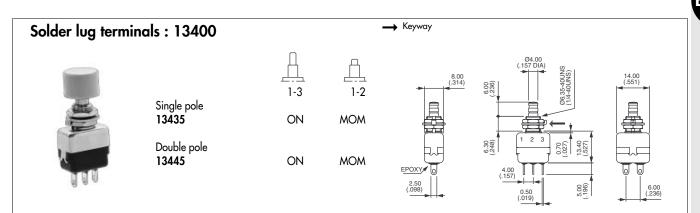
Solder lug terminals: 13400 - Straight PC terminals: 13200

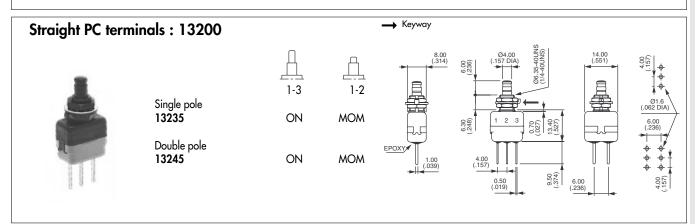


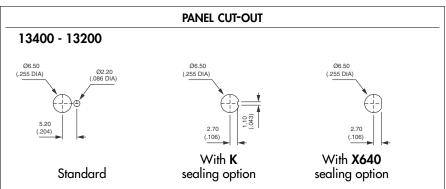
- Threaded bushing Ø 6,35 mm (1/4)
- Epoxy sealed terminals standard









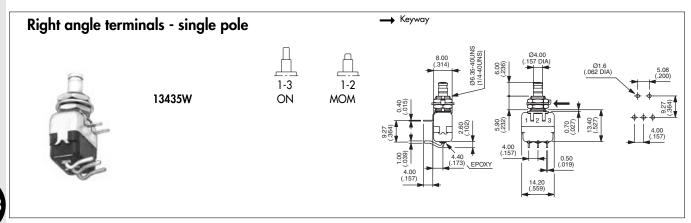


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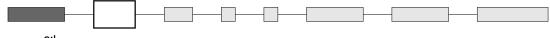
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Right angle terminals: 13400W



Panel cut-out, see previous page.

CONTACT MATERIALS

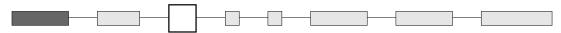


ΑD2

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 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)

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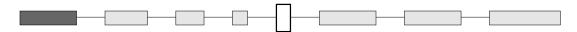
FINISH



Blank Bright chrome finish

G Matt black finish on bushing, actuator and hardware

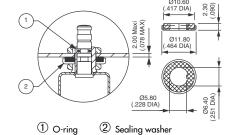
SEALING



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".



SPECIAL OPTIONS

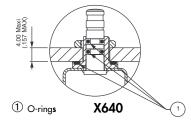


X640 Front panel sealing by three O-rings. Flatted bush for precise orientation. Protects the switch against water and dust.

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

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

X935 C-ring on plunger for positive stop



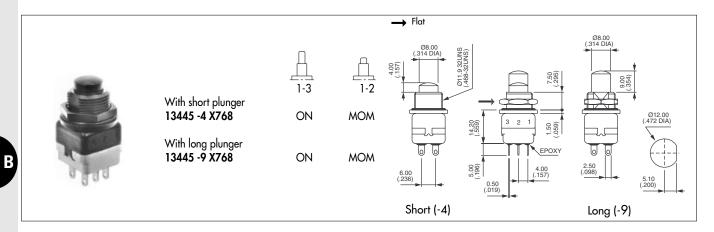
В

Downloaded from Elcodis.com electronic components distributor

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X768 Sealed switch with Ø 11,9 (15/32) flatted bushing. Solder lug terminals, double pole. Contact and finish options available.



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.

Preferential lists: see specifications.

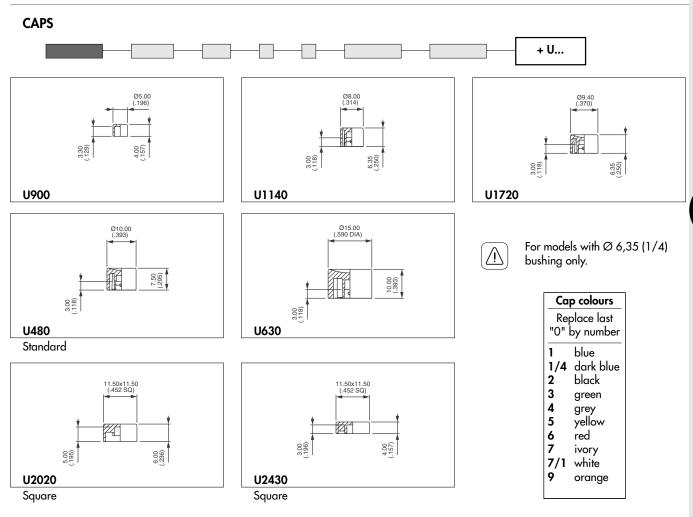
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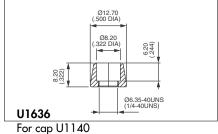


DRESS NUTS

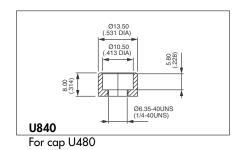
Chrome plated

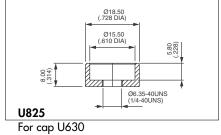


For models with \emptyset 6,35 (1/4) bushing only.









Dress nuts are to be ordered separately.