Professional quick-break momentary pushbutton switches



541,1300,221,2

DISTINCTIVE FEATURES

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): 4 A 30 VDC
 - gold plated contacts (CD): 100 mA 30 V
- Minimum load (AD2-CD contacts) : 10 mA 50 mV, 10 μ A 5 V min.
- Initial contact resistance : $10 \text{ m}\Omega$ max.
- Insulation resistance : 1,000 M Ω min. at 5 00VDC
- 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
А	4 A 30 VDC	50,000
AD2	4 A 30 VDC (gold plating : 100 mA 30 VDC max.)	20,000
CD	100 mA 30 VDC	50,000
	Low level or mechanical life	150,000





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)
- \bullet Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)

The company reserves the right to change specifications without notice.

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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.



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



2 A 125 VAC/250 VAC



CECC 96401-001

Designed to MIL specifications

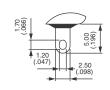
Availability:

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.



TERMINALS







ELECTRICAL FUNCTION

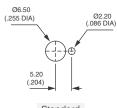
KEYWAY

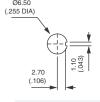




PANEL CUT-OUT

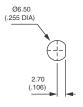
FOR Ø 6,35 (1/4) BUSHING





Standard

With K sealing option

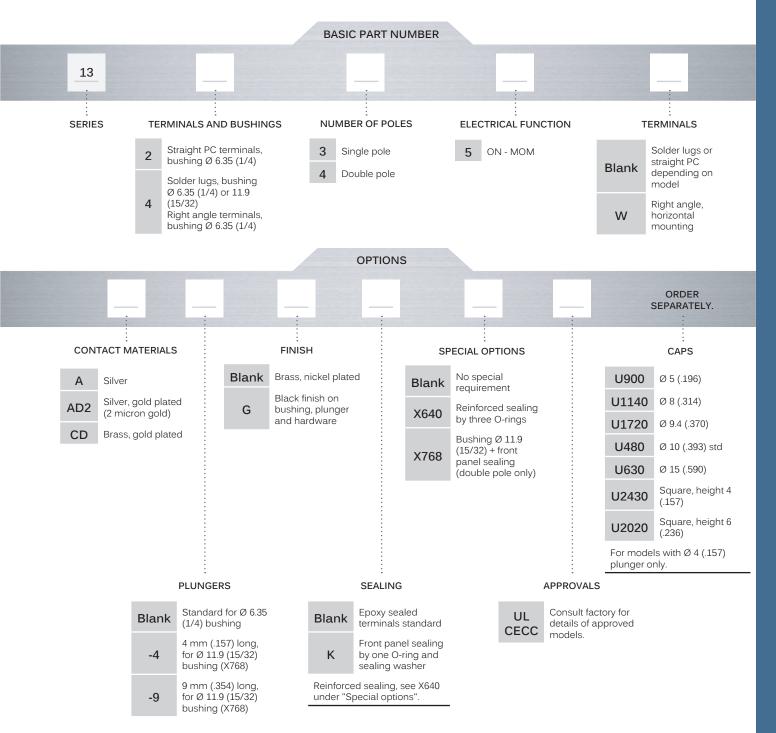


With X640 sealing option

Professional quick-break momentary pushbutton switches



BUILD YOUR PART NUMBER





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 the following pages for further information.
- (A) Sealing boots are available to protect the switches against dust and water. See "Sealing Boots" section.
- 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 is presented in the "Hardware" section of website.

Professional quick-break momentary pushbutton switches

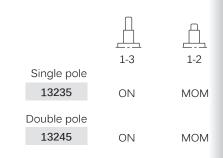
Ø 6.35 BUSHING SOLDER LUG TERMINALS: 13400



	1-3	1-2
Single pole		
13435	ON	MOM
Double pole		
13445	ONI	MOM

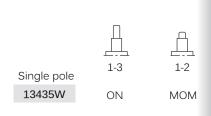
Ø 6.35 BUSHING STRAIGHT PC TERMINALS: 13200





Ø 6.35 BUSHING RIGHT ANGLE TERMINALS





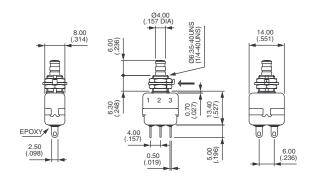
SEALED SWITCH WITH Ø 11.9 FLATTED BUSHING: X768 - SOLDER LUG TERMINALS



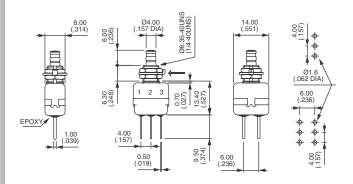
Double pole With short plunger	1-3	1-2
13445 -4 X768	ON	MOM
With long plunger		
13445 -9 X768	ON	MOM

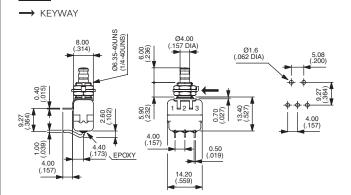
Chrome plated actuator.
Switch guard available for this model: see "Switch guards" section of website.

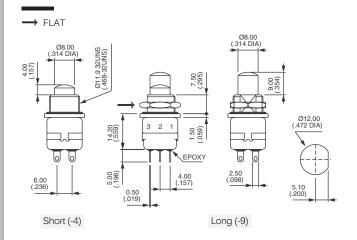
→ KEYWAY











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		CONTACTS MATERIALS		
	BASIC	P/N		
	A AD2 CD	Silver Silver, gold plated (2 micron gold) Brass, gold plated		
		PLUNGERS		
	BASIC	P/N		
	Dash c	ompulsory before plunger code.		
	Blank -4 -9	Standard plunger for Ø 6.35 (1/4) bushing 4 mm (.157) long plunger for Ø 11.9 (15/32) bushing (X768 option) 9 mm (.354) long plunger for Ø 11.9 (15/32) bushing (X768 option)		
		FINISH		
	BASIC	P/N		
	Blank G	Bright chrome finish Black finish on bushing, actuator and hardware SEALING		
	BASIC	P/N		
	K Reinfor	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. Indeed sealing: see X640 under "Special options".		
		05.80 (.228 DIA) 05.80 (.228 DIA) 05.80 (.228 DIA)		
SPECIAL OPTIONS				
	BASIC	P/N		
	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		
	X768	Sealed switch with Ø 11.9 (15/32) flatted bushing. Chrome plated actuator. Solder lug terminals, double pole. Contact and finish options available. See previous pages.		

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AGENCY APPROVALS

BASIC P/N

UL

CECC CECC 96401-001

Blank No agency approval required.

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.

CAPS

Order separately

The caps below are for Ø 4 mm plungers (standard and -9), except U2600.

Cap colours

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



