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 m Ω 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
	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

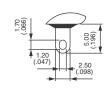
Availability:

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

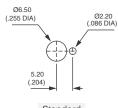
→ KEYWAY

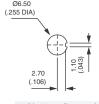




PANEL CUT-OUT

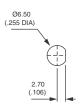
FOR Ø 6,35 (1/4) BUSHING





Standard

With K sealing option

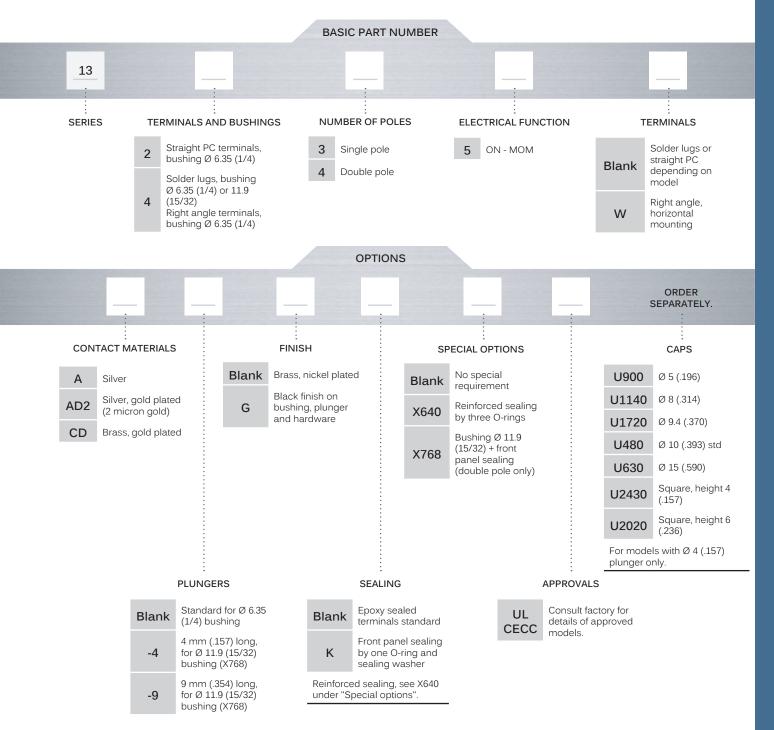


With X640 sealing option

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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.

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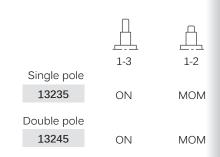
Ø 6.35 BUSHING SOLDER LUG TERMINALS: 13400



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

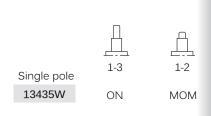
Ø 6.35 BUSHING STRAIGHT PC TERMINALS: 13200





Ø 6.35 BUSHING RIGHT ANGLE TERMINALS





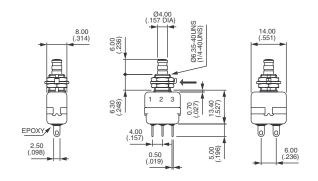
SEALED SWITCH WITH Ø 11.9 FLATTED BUSHING: X768 - SOLDER LUG TERMINALS



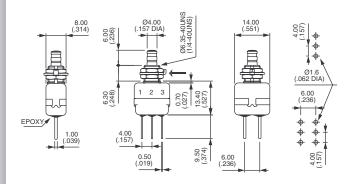
Double pole With short plunger	1-3	1-2
13445 -4 X768	ON	MOM
With long plunger		
13445 -9 X768	ON	MOM

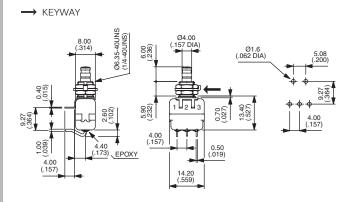
Chrome plated actuator.
Switch guard available for this model: see "Switch guards" section of website.

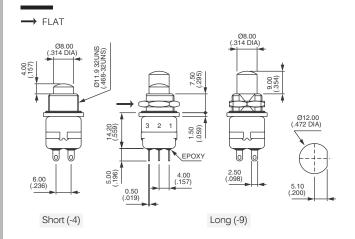
→ KEYWAY











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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. Ced sealing: see X640 under "Special options".		
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.