High performance pushbutton switches - threaded bushing \emptyset 11,9 (15/32) - momentary

Distinctive features



☐ 3-pole configurations now available!





CECC 96401-001 (double pole only)

This range of professional switches is suitable for use in military and other high specification environments.



Highly reliable contacts suitable for low level applications or power applications.

☐ Double shell case

For high mechanical strength and high electrical insulation.



□ Compact size

The small rear end of the switch allows space savings behind the panel.

☐ Finish

Black finish on body, bushing, plunger and hardware.

□ Full sealing

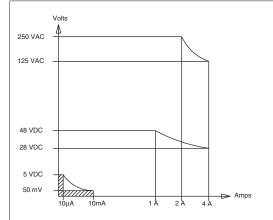
Panel sealed to IP 67, these switches are frontal sealed by three O-rings and have full rear end sealing.

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Specifications

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load: 4A 28VDC
- Minimum load: 10mA 50mV, 10µA 5VDC
 - When used above 300mA 28VDC, the gold plating is removed on contact areas and is considered only as a protection against oxidation during storage.
- Initial contact resistance : $10 \text{ m}\Omega$ 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
- 2.000 Vrms 50 Hz min. between terminals and frame
- Contact bounce: 2 ms max.
- Electrical life :
 - At 4A 28VDC: 10.000 cycles
 - At low level (50mV 10mÁ): 150.000 cycles

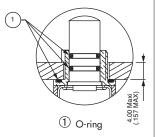


MATERIALS

- Case : diallylphthalate (DAP) with PBT external shell (epoxy sealed)
- Actuator : brass, black chrome plated
- Bushing: brass, black chrome plated
- Contacts: silver inlay gold plated over nickel barrier

SEALING

- Front panel sealing by three O-rings
- Panel seal withstands 1 bar pressure and remains sealed even when the switch is operated.
- Epoxy sealed terminals
- Splash-proof case



GENERAL SPECIFICATIONS

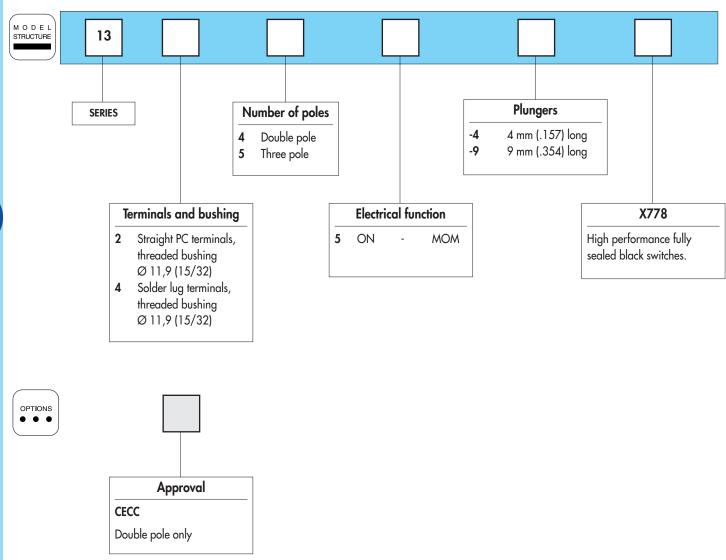
- Total travel : 2 mm (.078)
- Torque: 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness: 5 mm (.196) max.
- Shock test: 50g 11ms (IEC 68-2-27)
 Vibrations: 10-500 Hz 10g (IEC68-2-6)
 Operating temperature: -40°C to +85°C
- Humidity test: 56 days, 93 % R.H., 40°C (IEC 68-2-3)
- Salt spray test: 96 hours (IEC 68-2-11)

APPROVALS

Many double pole models have full CECC approval. Consult factory for details of approved models. To order switches marked CECC, complete appropriate box of ordering format.

High performance pushbutton switches - threaded bushing \emptyset 11,9 (15/32) - momentary

Overview



ABOUT THIS SERIES

On the following pages, you will find successively:

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

Dimensions: first dimensions are in mm while inches are shown as bracketed numbers.



Sealing boots can be used to further protect the switches against dust and water. They are presented in section H.



Mounting accessories: standard hardware supplied with all models: 1 hex nut 14 (.551) across flats, part number U41. This nut is presented after model structure of switches.

Security cap available to prevent inadvertent plunger operation. See section I.



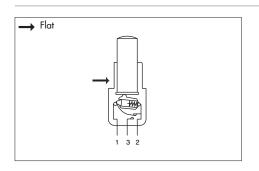
Packaging unit: 25 pieces

B2

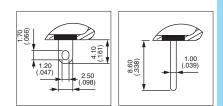
13000X778 series

High performance pushbutton switches - threaded bushing \emptyset 11,9 (15/32) - momentary

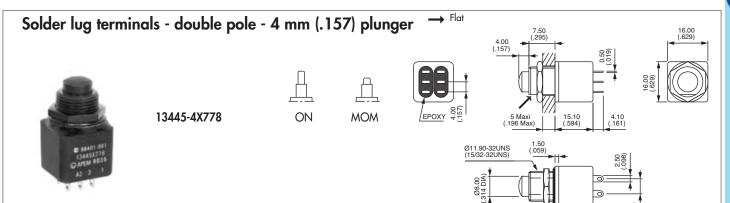
Fully sealed - black

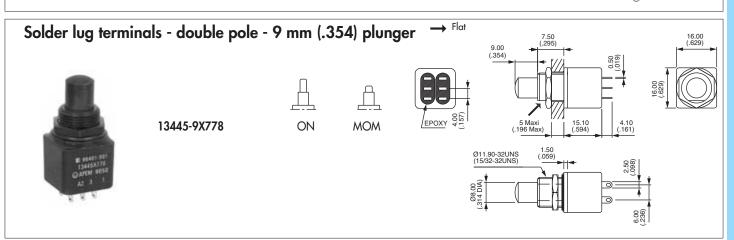


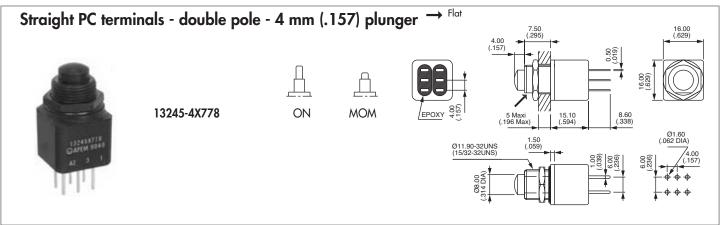
• Quick-break momentary pushbutton switches



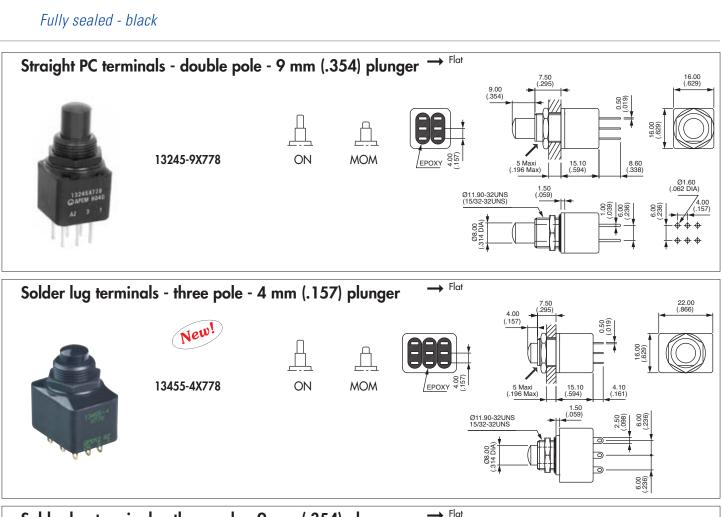
MODEL STRUCTURE

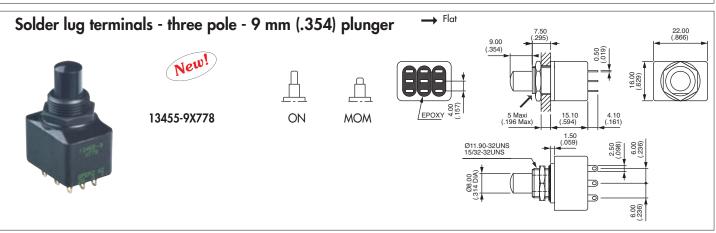


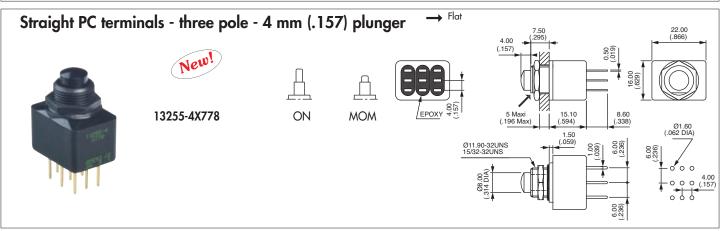




High performance pushbutton switches - threaded bushing \emptyset 11,9 (15/32) - momentary



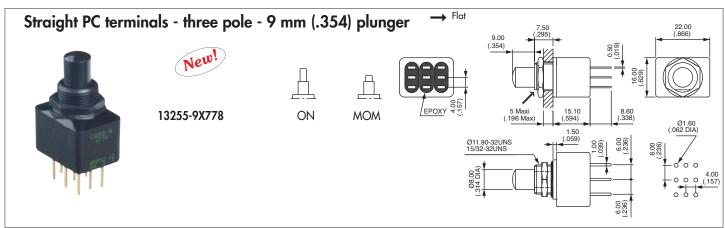


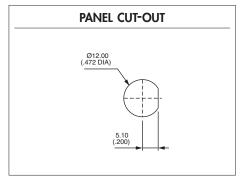


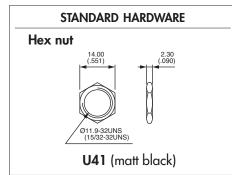
B2

High performance pushbutton switches - threaded bushing \emptyset 11,9 (15/32)

Fully sealed - black







POSITIONS AND CONNECTIONS				
FUNCTION	BUTTON POSITION	AND CONNECTIONS	TERMINAL IDENTIFICATION	
DOUBLE POLE 13245 13445	ON A 1-2 B 1-2	MOM A 1-3 B 1-3	Flat 2 3 3 1 B 1	
THREE POLE 13255 13455	A 1-2 B 1-2 C 1-2	A 1-3 B 1-3 C 1-3	C 2 2 3 2 3 1	

AGENCY APPROVAL



CECC 96401-001 (double pole only)

Marking: to order switches marked CECC, please complete above box with "CECC". Blank: no agency approval required.

APEM www.apem.com B2-57