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

Distinctive features

**UG1410A** 

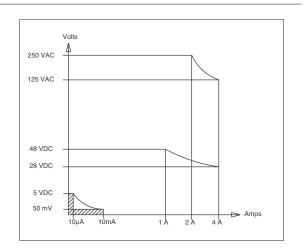


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**Specifications** 

#### **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 m $\Omega$  max. Insulation resistance : 1.000 M $\Omega$  min. at 500VDC
- Dielectric strenath :
  - 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

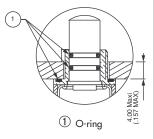


#### **MATERIALS**

- 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**

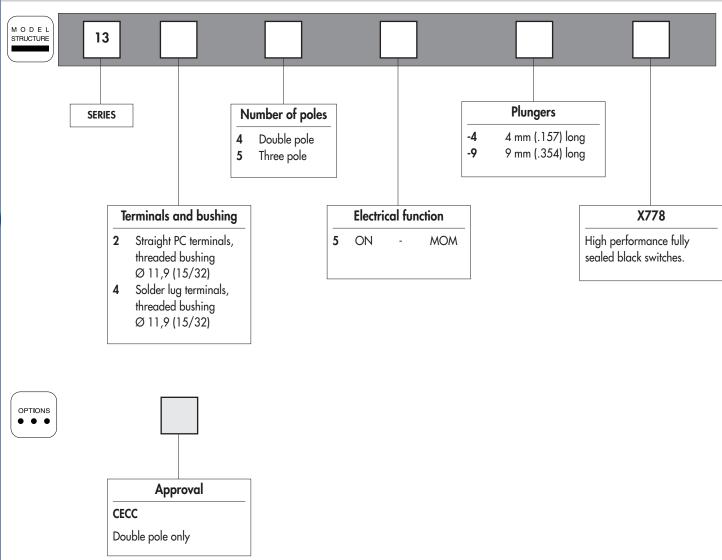
- Total travel : 2 mm (.078)
- Torque: 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness : 5 mm (.196) max.
- Shock test: 50g 11ms (IEC 68-2-27)
  Vibrations: 10-500 Hz 10g (IEC68-2-6)
- Operating temperature : -40°C to +85°C
- Humidity test: 56 days, 93 % R.H., 40°C (IEC 68-2-3)
- Salt spray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



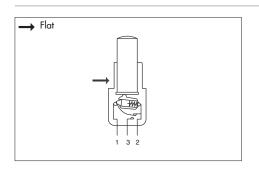
Packaging unit: 25 pieces

### **B2**

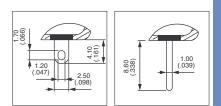
### 13000X778 series

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

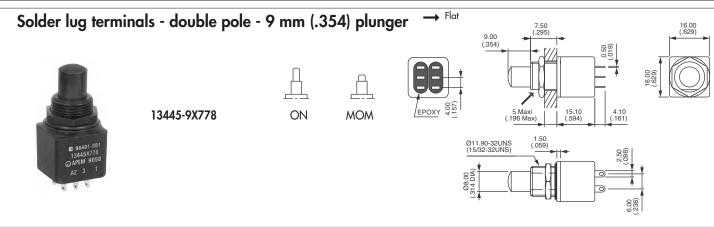
Fully sealed - black

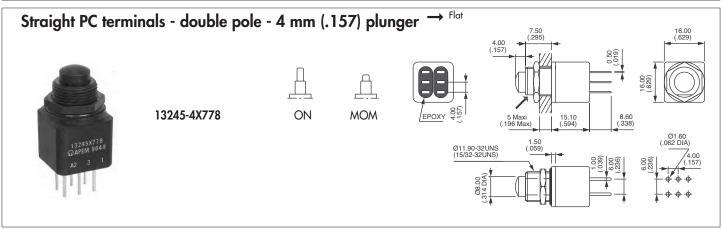


• Quick-break momentary pushbutton switches



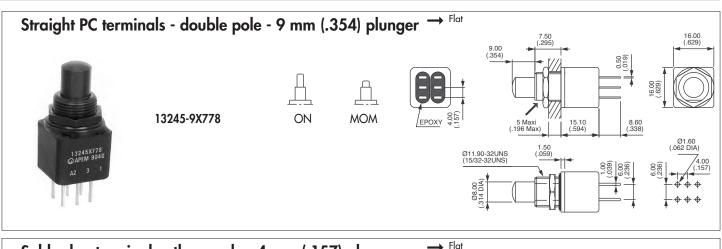
MODEL STRUCTURE

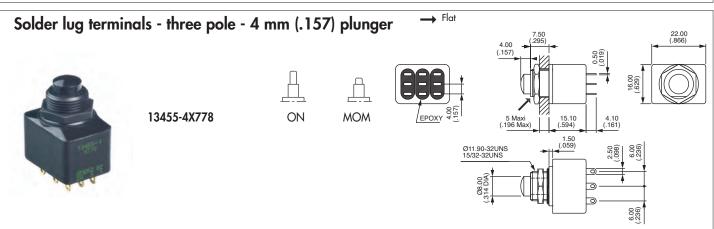


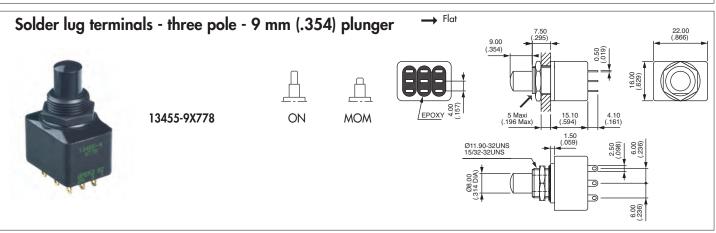


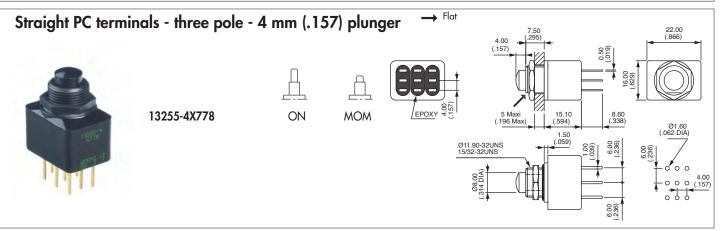
High performance pushbutton switches - threaded bushing  $\emptyset$  11,9 (15/32) - momentary

Fully sealed - black





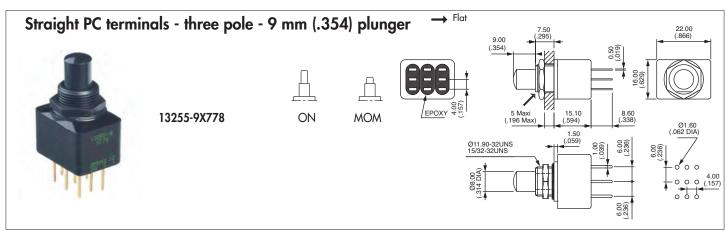


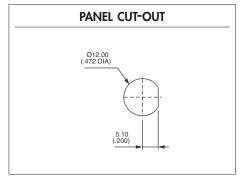


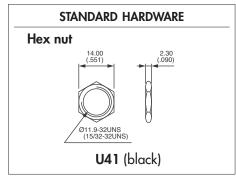
**B2** 

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	ON	MOM	$\rightarrow$ Flat	
13245 13445	A 1-2 B 1-2	A 1-3 B 1-3	3 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 3 2 3 1	Pre-travel : 1 mm (.039) Over-travel : 1 mm (.039) Total travel : 2 mm (.078)

### **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.