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

Distinctive features

UG1006-A

## □ Agency approvals



CECC 96401-001

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



### Contacts

Highly reliable contacts suitable for low level applications (10mA 50mV, 10µA 5VDC min.) or power applications (2A 250VAC, 4A 125VAC, 4A 30VDC max.)

### ■ 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

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

Specifications

#### **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load: 2A 250VAC 4A 125VAC 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 M $\Omega$  min. at 500VDC

• Dielectric strength:

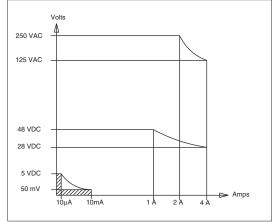
1.000 Vrms 50 Hz min. between terminals 2.000 Vrms 50 Hz min. between poles

2.000 Vrms 50 Hz min. between terminals and frame

• Contact bounce: 2 ms max.

• Electrical life :

- At 2A 250VAC - 4A 28VDC: 10.000 cycles - At low level (50mV 10mA): 150.000 cycles

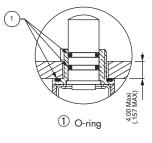


#### **MATERIALS**

- 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**

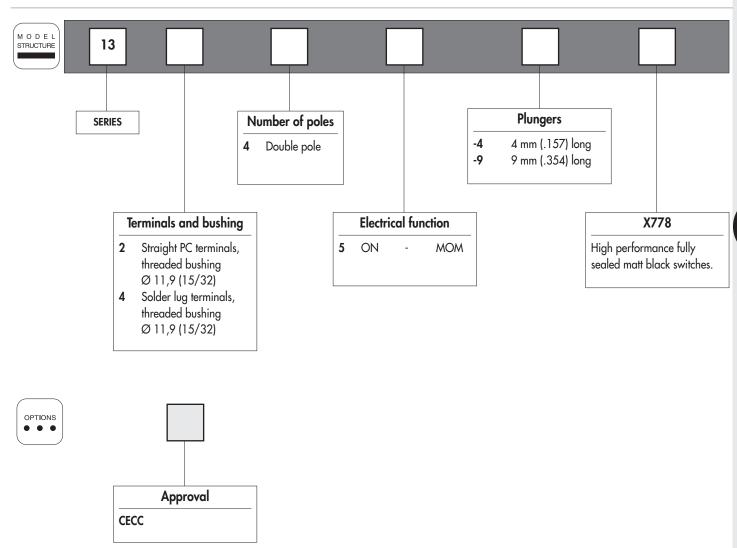
- Total travel : 2 mm (.078)
- Torque: 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness: 5 mm (.196) max.
- Shock test: 50g 11ms (IEC 68-2-27)
  Vibrations: 10-500 Hz 10g (IEC68-2-6)
  Operating temperature: -40°C to +85°C
- Humidity test: 56 days, 93 % R.H., 40°C (IEC 68-2-3)
- Salt spray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

### **APPROVALS**

Many models within this range have full CECC approval. To order switches marked CECC, complete appropriate box of ordering format.

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

**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 bracketted numbers.



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



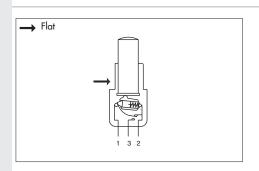
**Mounting accessories**: standard hardware supplied with all models: 1 hex nut 14 (.551) across flats, part number U41. This nut is presented after model structure of switches.



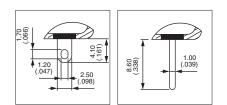
Packaging unit: 25 pieces

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

Fully sealed - matt black

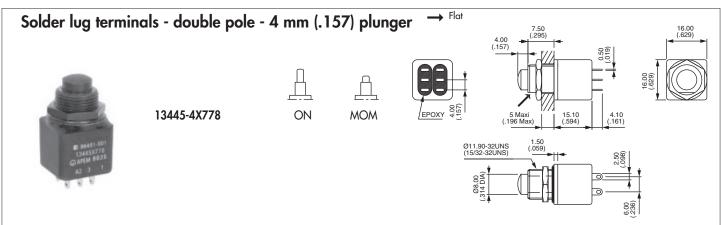


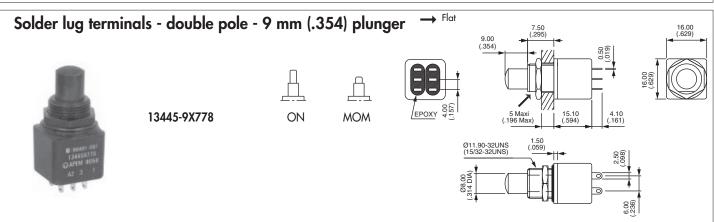
• Quick-break momentary pushbutton switches

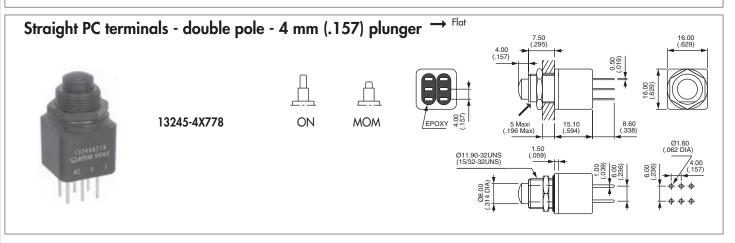


**MODEL** 

**STRUCTURE** 







B-110

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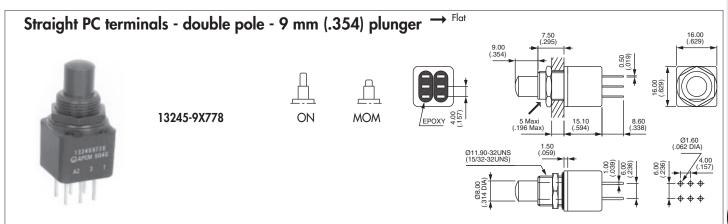
**APEM** 

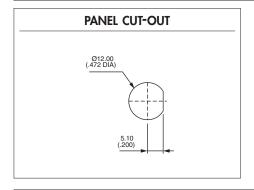
## Б

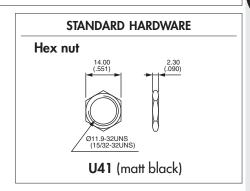
## 13000X778 series

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

Fully sealed - matt black







POSITIONS AND CONNECTIONS				
FUNCTION	BUTTON POSITION	AND CONNECTIONS	TERMINAL IDENTIFICATION	
13245 13445	ON A 1-2 B 1-2	MOM A 1-3 B 1-3	Flat  2 3 1 1 1	

### **AGENCY APPROVAL**



**CECC** CECC 96401-001

Marking: to order switches marked CECC, please complete above box with "CECC".

Blank: no agency approval required.

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