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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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:

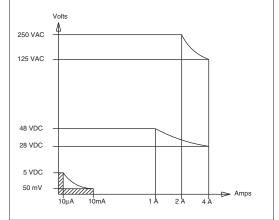
1.000 Vrms 50 Hz min. between terminals 2.000 Vrms 50 Hz min. between poles

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

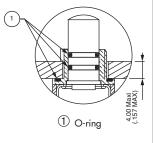


#### **MATERIALS**

- 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**

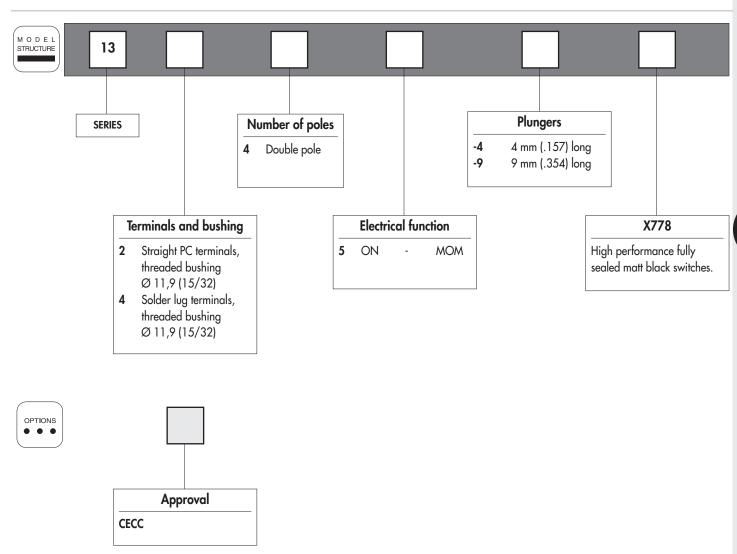
- Total travel : 2 mm (.078)
- Torque: 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness: 5 mm (.196) max.
- Shock test: 50g 11ms (IEC 68-2-27)
  Vibrations: 10-500 Hz 10g (IEC68-2-6)
  Operating temperature: -40°C to +85°C
- Humidity test: 56 days, 93 % R.H., 40°C (IEC 68-2-3)
- Salt spray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

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**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.

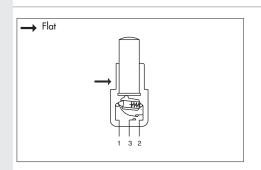




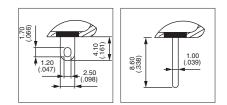
Packaging unit: 25 pieces

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Fully sealed - matt black

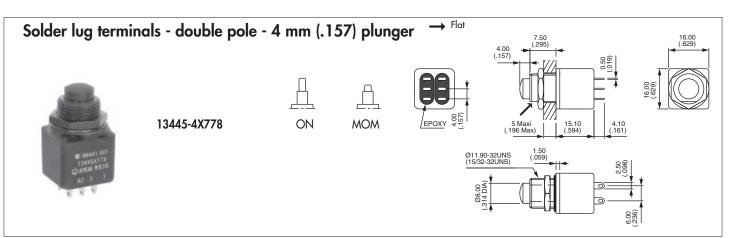


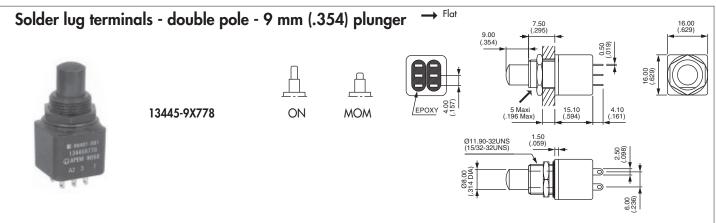
• Quick-break momentary pushbutton switches

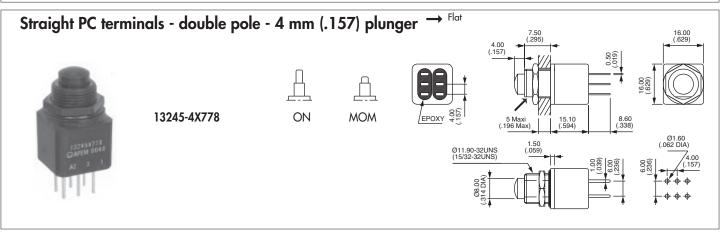


**MODEL** 

**STRUCTURE** 







B-110

www.apem.com

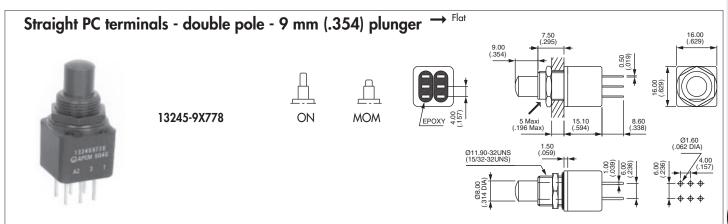
**APEM** 

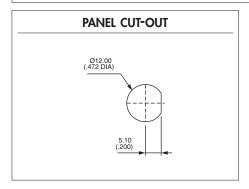
## Б

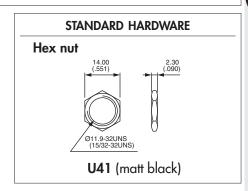
# 13000X778 series

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Fully sealed - matt black







		POSITION	IS 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 B  A 2 3 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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8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7190K101 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 95-313.000 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBMMNGA A22NZBNANGA A22NZBMANGA A22NZBMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7340 A3U-TMW-A2C-5M A595