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

Distinctive features

	■ Applications These professional switches are suitable for use in military and other high specifications environments.
13445/778 RPEH2 R2	Alternate action Now available as a bistable switch to have a maintained electrical contact.
	☐ Contacts Highly reliable contacts suitable for low level applications or power applications.
	Double shell case For high mechanical strength and high electrical insulation.
1A 3 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	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 two 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

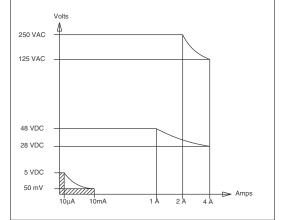
When used above 300mA 28VDC, the gold plating is removed on contact areas and is considered only as a protection

against oxidation during storage.

- Initial contact resistance : $10 \text{ m}\Omega$ max.
- Insulation resistance : 1.000 M Ω 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 10mA): 150.000 cycles

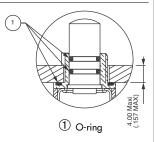


MATERIALS

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

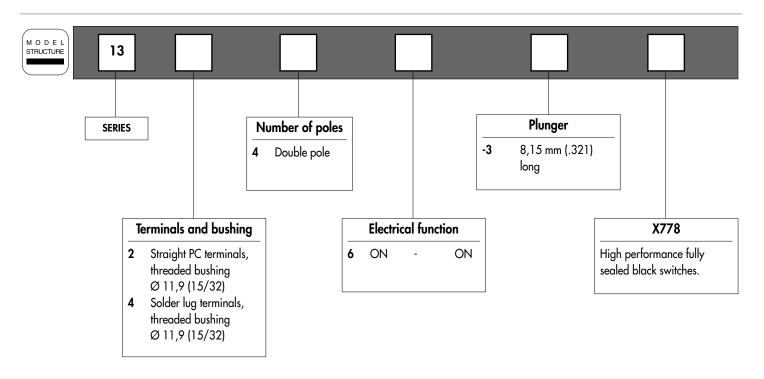


GENERAL SPECIFICATIONS

- Total travel : 2,5 mm (.098)
- Torque: 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness: 8 mm (.315) 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)

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Overview



ABOUT THIS SERIES

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

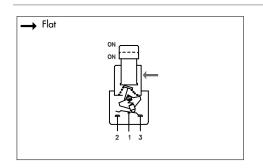
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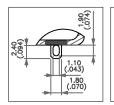
ERMEC, S.L. BARCELONA C/ Francesc Teixidó, 22 E-08918 Badalona Tel.: (+34) 902 450 160 Fax: (+34) 902 433 088 info@ermec.com www.ermec.com ERMEC, S.L. MADRID C/ Sagasta, 8, 1^a planta E-28004 Madrid (Spain) PORTUGAL
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BILBAO
bilbao@ermec.com

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Fully sealed - black



- Alternate action pushbutton switches
- Button returns in upper position after actuation.





MODEL STRUCTURE

Solder lug terminals - double pole

13446-3X778

ON

ON

ON

Flat

13446-3X778

ON

ON

ON

Flat

13.50

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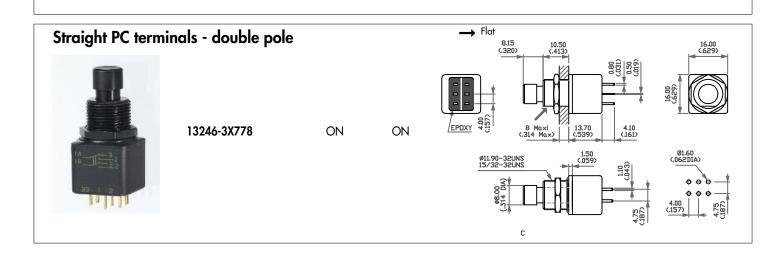
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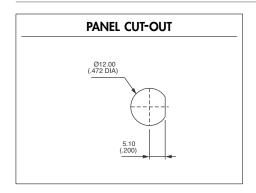
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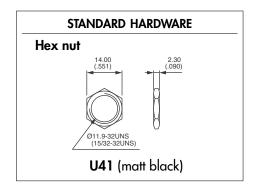


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POSITIONS AND CONNECTIONS						
FUNCTION	BUTTON POSITION AND CONNECTIONS		TERMINAL IDENTIFICATION			
13246 13446	ON A 1-2 B 1-2	ON A 1-3 B 1-3	Flat 2 1 3 B A 2 1 3 3			