

## **IB & IS SERIES**

SEALED MINIATURE PUSHBUTTON SWITCHES

Distinctive features and overview

#### MORE COMPACT

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These new pushbutton switches have a behind-panel depth of only 13 mm and fit into a  $\emptyset$  13,6 mm (.535) panel cut-out.

The bushing-bezel assembly is of single piece construction.

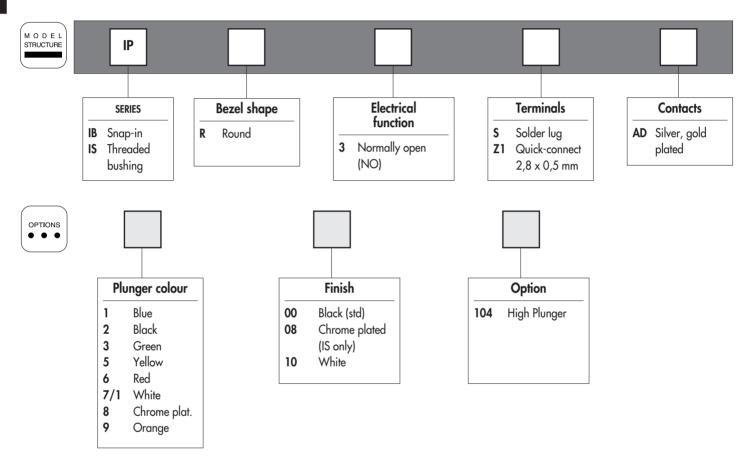
#### • SIMPLIFIED MOUNTING

The snap-in mounting version meets the user's requirement for easy panel assembly.

The thermoplastic bushing and bezel assembly allows APEM to achieve a 50 % reduction in weight compared to metallic models.

#### • SEALED TO IP 67

The IB and IS pushbutton switches are sealed to IP 67 against immersion. The silicone membrane located beneath the plunger ensures sealing and provides tactile feedback.



#### **ABOUT THIS SERIES**

On the following pages, you will find successively :

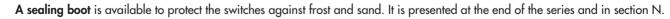
- specifications

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

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



NOTICE : please note that not all combinations of above numbers are available. Refer to the following pages for further information.





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Mounting accessories : Standard hardware supplied : 1 flat seal (IB series)

1 hex nut 14 mm (.551) across flats and 1 flat seal (IS series). The hex nut is presented in section N (part number U166).

Packaging unit : 50 pieces



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### **Specifications**

#### ENVIRONMENTAL SPECIFICATIONS

- Degree of protection : IP 67
- Shock resistance : 100 g according to IEC 512-4, test 6c
- Vibration resistance : 10-500 Hz 10 g according to IEC 512-4, test 6d
- Salt spray : IEC 512-6, test 11f
- Operating temperature : -40°C to +85°C

#### **ELECTRICAL AND GENERAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load : 400mA 32VAC 100mA 50VDC 125mA 125VAC
- Initial contact resistance : 50 m $\Omega$  max.
- Insulation resistance : 1 GΩ min. at 500VDC
  Dielectric strength : 1.000 VAC rms
  Electrical life at full load : 500.000 cycles

- Panel thickness :
- IB series : 0,8 mm (.031) min. 1,8 mm ( .071) max. - IS series : 1,5 mm (.059) min. - 4 mm (.157) max. • Total travel : 1,5 mm (.059)
- Operating force : 3N +/- 1N
- Contact bounce : 10 ms
- Mechanical life : 1.000.000 cycles
- Torque : 1,5 Nm max. applied to nut
- Soldering : 300°C max. for 3 seconds

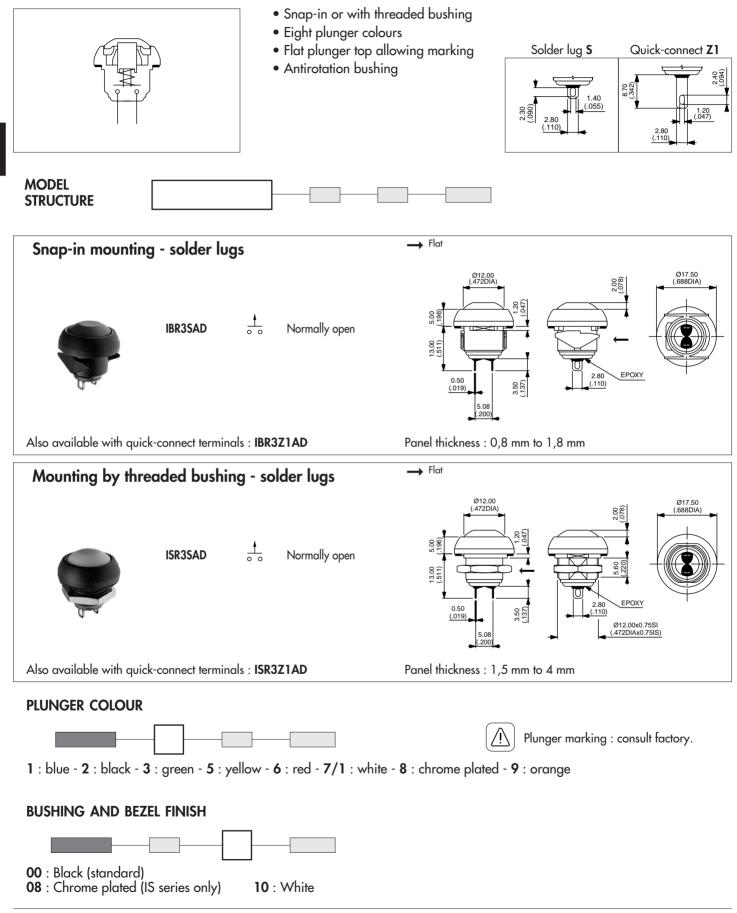
#### MATERIALS

- Case : thermoplastic UL94-V0
- Plunger : polyamide 6/6
- Bushing/bezel : polyamide 6/6
- Contacts : silver, gold plated
- Terminal seal : epoxy



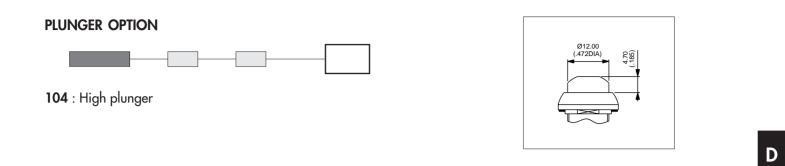
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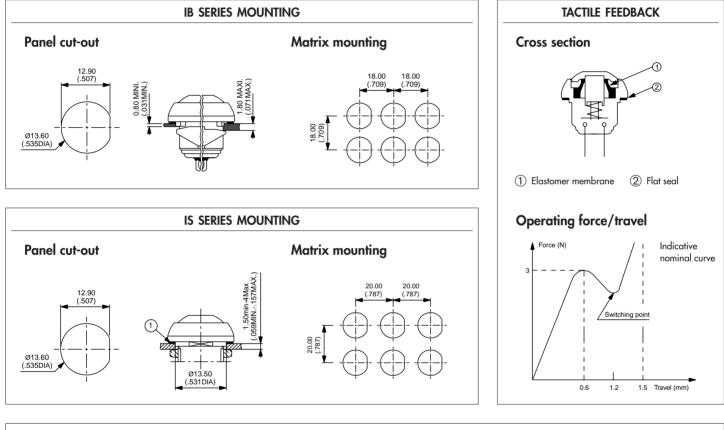
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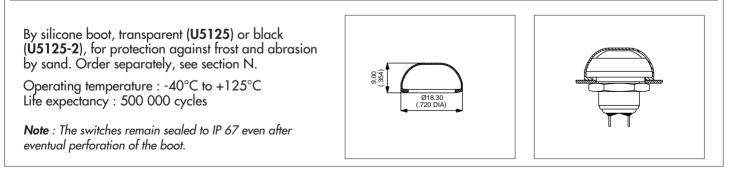


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#### ADDITIONAL SEALING



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