

IB and IS series

Sealed pushbutton switches - bushing Ø 12 mm - momentary

Distinctive features and specifications



- Snap-in and threaded bushing models**
- Compact, light in weight**
 - Behind-panel depth of 13 mm (.512) only
 - 50 % reduction in weight compared to metallic models
- Tactile feedback**
- Sealed to IP67 (IS series) or IP54 (IB series)**

B1

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing according to IEC 60529 : IP67 (IS) or IP54 (IB)
- 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

MATERIALS

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

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
400mA 32VAC - 100mA 48VDC
- Initial contact resistance : 50 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.000 Vrms
- Electrical life at full load : 500.000 cycles

AGENCY APPROVAL



2A 125VAC/250VAC
File E83438

Availability : consult factory for details of approved models.

Marking : to order switches marked UL, complete appropriate box of ordering format.

GENERAL SPECIFICATIONS

- 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 : 1,7 mm (.066) +/- 0,3 mm
- Typical operating force : 4N +/- 3N
- Low level or mechanical life : 1.000.000 cycles
- Torque : 1,5 Nm max. applied to nut
- Soldering : 300°C max. for 3 seconds

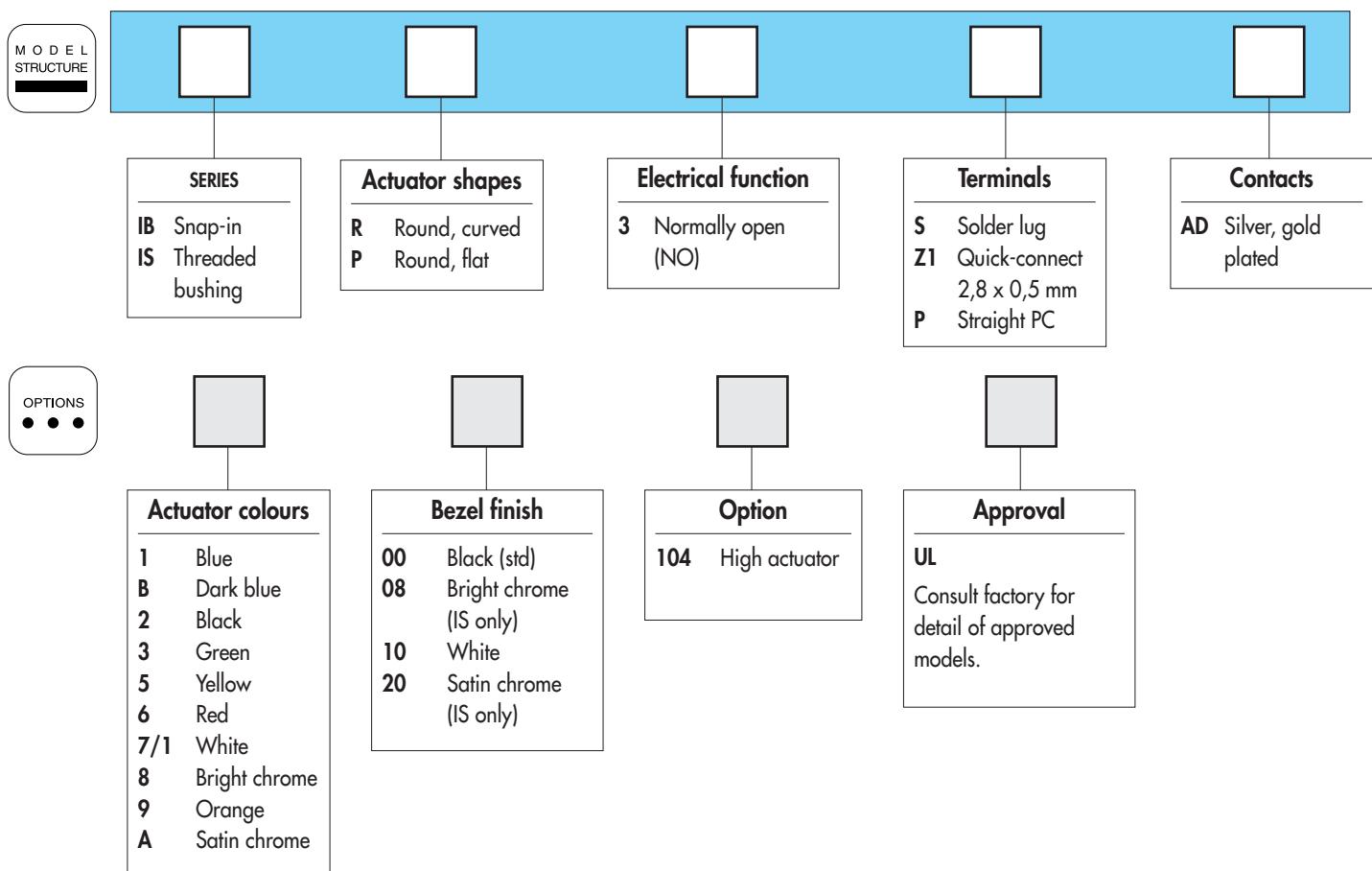
Example of custom switch:
see end of the series.

Panel mounting : see next pages.

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Overview



ABOUT THIS SERIES

On the following pages, you will find successively :

- 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 bracketed numbers.



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



A sealing boot is available to protect the switches against frost and sand. It is presented after the IA series and in section H.



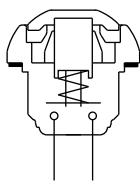
Mounting accessories : Standard hardware supplied : 1 flat seal (IB series)
1 hex nut 14 mm (.551) across flats and 1 flat seal (IS series). Hex nut part number U166.



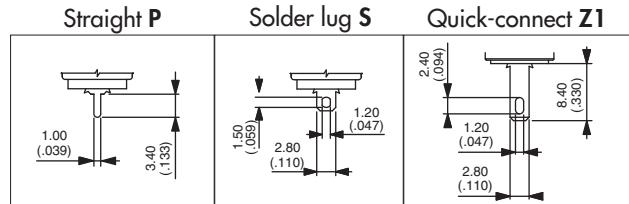
Packaging unit : 50 pieces

IB and IS series

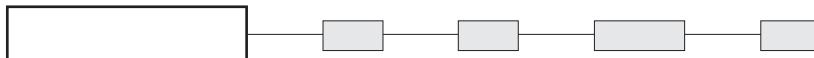
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- Ten actuator colours
- Curved or flat actuator
- Antirotation bushing



MODEL STRUCTURE



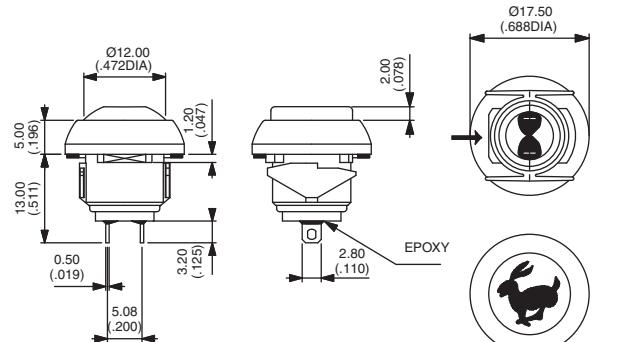
Actuator marking available on IBP and ISP models (symbol 10 mm max.). On request.

Snap-in mounting - solder lug terminals



Curved actuator IBR3SAD	Flat actuator IBP3SAD
Normally open	Normally open

→ Flat



Also available with straight PC : **IB•3PAD** or quick-connect terminals : **IB•3Z1AD**

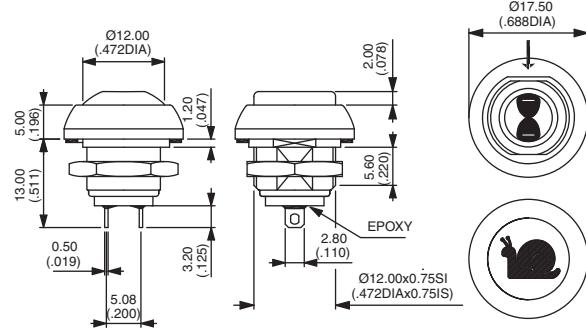
Mounting by threaded bushing - solder lug terminals



Curved actuator ISR3SAD	Flat actuator ISP3SAD
Normally open	Normally open

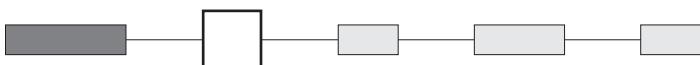
→ Flat

Panel thickness : 1,5 mm to 4 mm



Also available with straight PC : **IS•3PAD** or quick-connect terminals : **IS•3Z1AD**

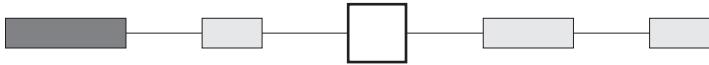
ACTUATOR COLOURS



Actuator marking available on IBP and ISP models (symbol 10 mm max.). On request.

1 : blue - 2 : dark blue - 3 : black - 4 : green - 5 : yellow - 6 : red - 7/1 : white - 8 : bright chrome
9 : orange - A : satin chrome

BUSHING AND BEZEL FINISH

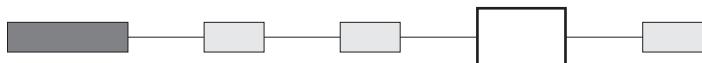


00 : Black (standard)
08 : Bright chrome (IS series only)
10 : White
20 : Satin chrome (IS series only)

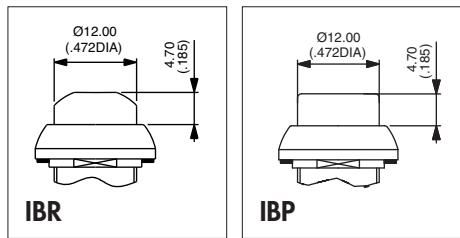
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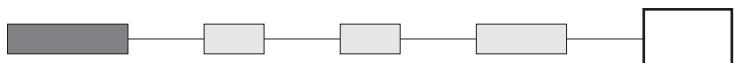
ACTUATOR OPTION



104 : High actuator



APPROVAL



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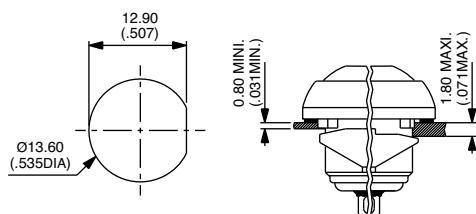
UL

Availability : consult factory for details of approved models.

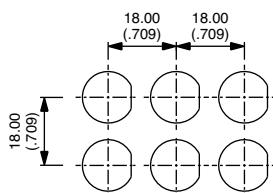
Marking : to order switches marked UL, complete above box with "UL".

IB SERIES MOUNTING

Panel cut-out

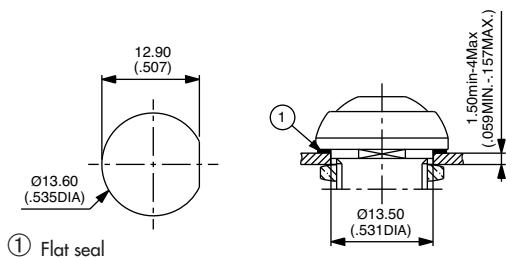


Matrix mounting

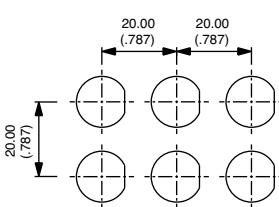


IS SERIES MOUNTING

Panel cut-out



Matrix mounting



Example of custom switch



ISR3FADB22X1248-01

- Painted bushing and actuator, soft feel
- Flying leads (55 mm) + connector
- Overmolded rear part

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem](#):

[IBR3SAD7/100](#) [IBR3SAD7/110](#) [ISR3SAD7/110](#) [ISR3Z1AD500](#)