

# IB and IS series

## Sealed pushbutton switches - bushing Ø 12 mm - momentary

*Distinctive features and specifications*

UG1410-A-R1



- 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 (applied to nut) : 1 Nm max. with metal nut U166  
1,5 Nm max. with plastic nut U4248
- Soldering : 300°C max. for 3 seconds

Example of custom switch:  
see end of the series.

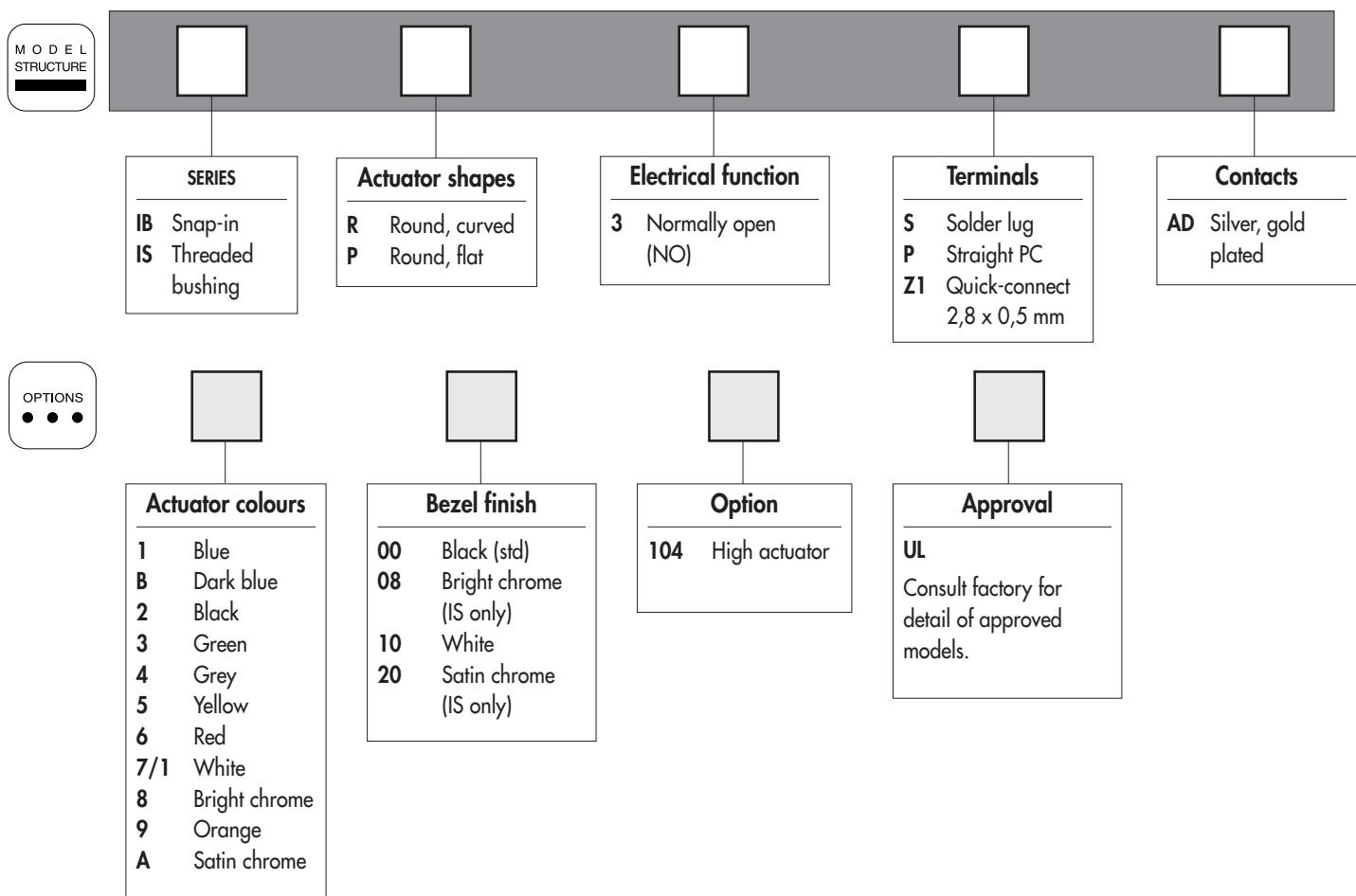
**Panel mounting** : see next pages.

The company reserves the right to change specifications without notice.

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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.



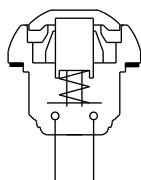
**Mounting accessories** : Standard hardware supplied : 1 flat seal (IB series)  
1 metal hex nut 14 mm (.551) across flats, part number U166, and 1 flat seal (IS series).  
Plastic nut 17 mm (.669) across flats, thickness 4 mm (.157) available on request. Part number U4248.



**Packaging unit** : 50 pieces

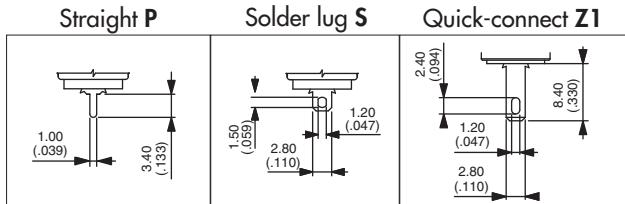
# IB and IS series

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Function 3 (NO)

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



### MODEL STRUCTURE



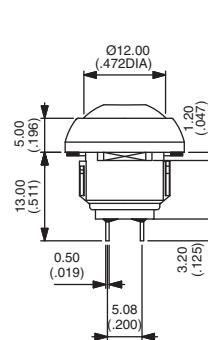
Actuator marking available on IBP and ISP models (symbol 10 mm max.). On request.

### Snap-in mounting - solder lug terminals

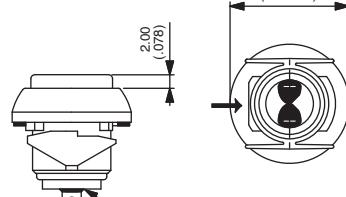


Curved actuator <b>IBR3SAD</b>	Flat actuator <b>IBP3SAD</b>
Normally open	Normally open

→ Flat



Panel thickness : 0,8 mm to 1,8 mm



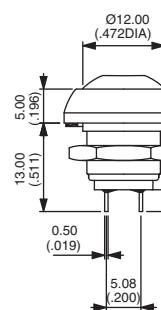
Also available with straight PC : **IB•3PAD** or quick-connect terminals : **IB•3Z1AD**

### Mounting by threaded bushing - solder lug terminals

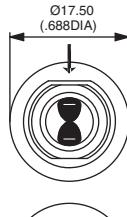


Curved actuator <b>ISR3SAD</b>	Flat actuator <b>ISP3SAD</b>
Normally open	Normally open

→ Flat



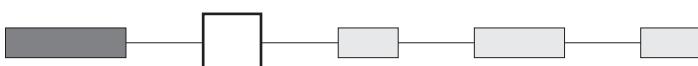
Panel thickness : 1,5 mm to 4 mm



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

### BUSHING AND BEZEL FINISH

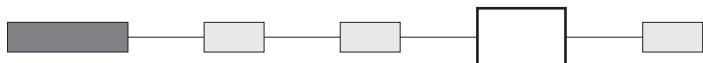


**00** : Black (standard)  
**08** : Bright chrome (IS series only)  
**10** : White  
**20** : Satin chrome (IS series only)

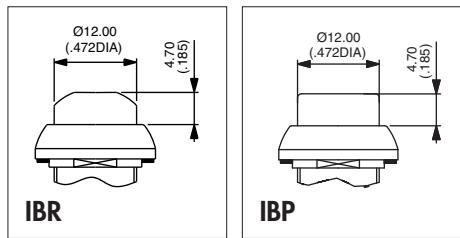
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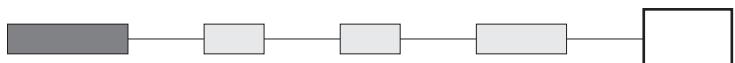
## ACTUATOR OPTION



104 : High actuator



## APPROVAL



B1

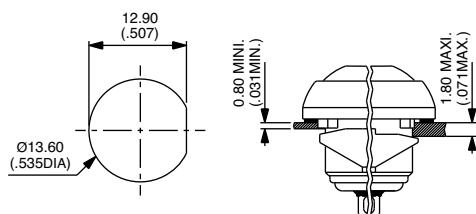
UL

Availability : consult factory for details of approved models.

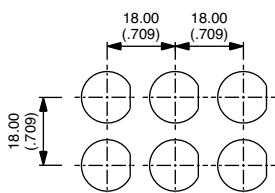
Marking : to order switches marked UL, complete above box with "UL".

## IB SERIES MOUNTING

### Panel cut-out

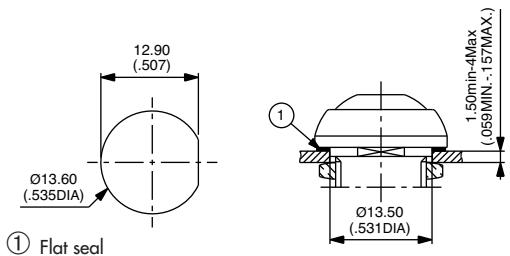


### Matrix mounting

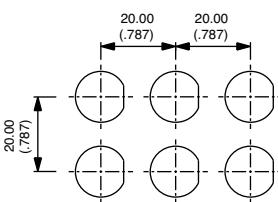


## IS SERIES MOUNTING

### 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](#)