

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)

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

MODEL
STRUCTURE

SERIES	Actuator shapes	Electrical function	Terminals	Contacts
IB Snap-in IS Threaded bushing	R Round, curved P Round, flat	3 Normally open (NO)	S Solder lug Z1 Quick-connect 2,8 x 0,5 mm P Straight PC	AD Silver, gold plated

OPTIONS

Actuator colours	Bezel finish	Option	Approval
1 Blue B Dark blue 2 Black 3 Green 5 Yellow 6 Red 7/1 White 8 Bright chrome 9 Orange A Satin chrome	00 Black (std) 08 Bright chrome (IS only) 10 White 20 Satin chrome (IS only)	104 High actuator	UL Consult factory for detail of approved models.

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.



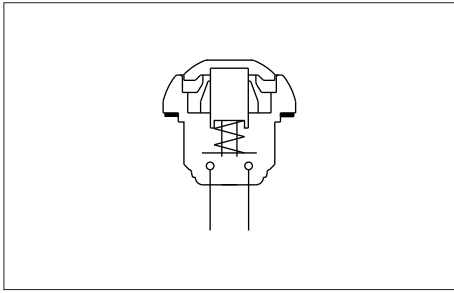
Mounting accessories : Standard hardware supplied : 1 flat seal (IB series)
1 hex nut 14 mm (.551) across flats and 1 flat seal (IS series). Hex nut part number U166.



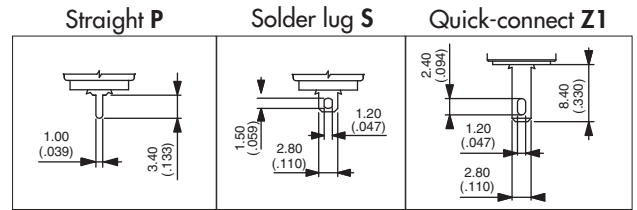
Packaging unit : 50 pieces

IB and IS series

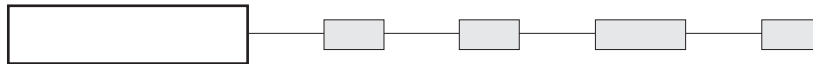
Sealed pushbutton switches - bushing Ø 12 mm - momentary



- 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

→ Flat

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



Curved actuator
IBR3SAD

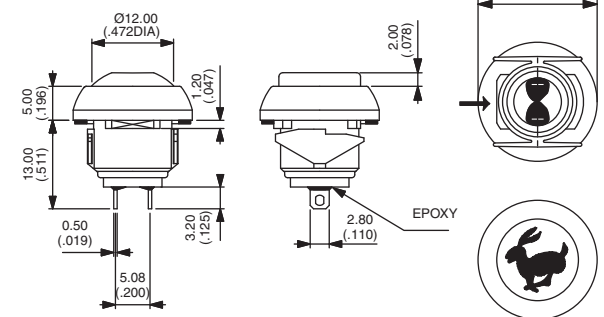


Normally open

Flat actuator
IBP3SAD



Normally open



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

Mounting by threaded bushing - solder lug terminals

→ Flat

Panel thickness : 1,5 mm to 4 mm



Curved actuator
ISR3SAD

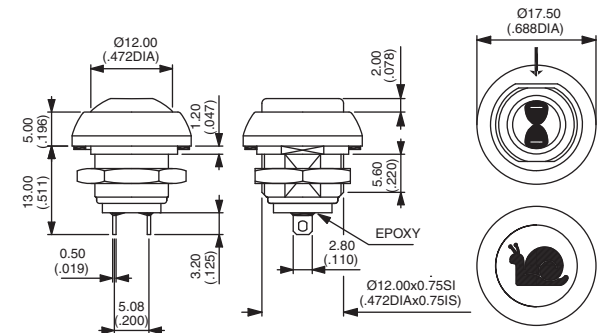


Normally open

Flat actuator
ISP3SAD



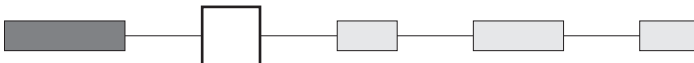
Normally open



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 - 5 : yellow - 6 : red - 7/1 : white - 8 : bright chrome
 9 : orange - A : satin chrome

BUSHING AND BEZEL FINISH

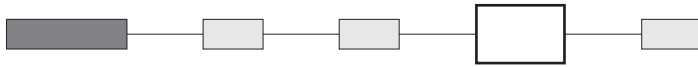


00 : Black (standard)
 08 : Bright chrome (IS series only)
 10 : White
 20 : Satin chrome (IS series only)

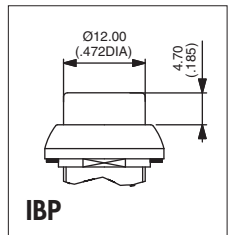
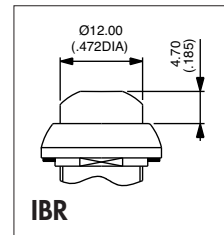
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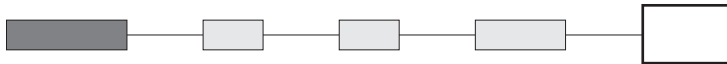
ACTUATOR OPTION



104 : High actuator



APPROVAL



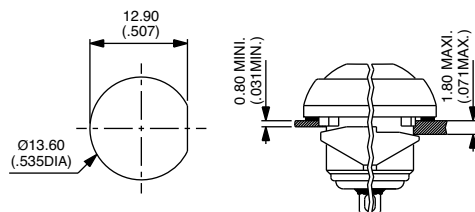
UL

Availability : consult factory for details of approved models.

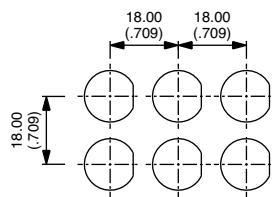
Marking : to order switches marked UL, complete above box with "UL".

IB SERIES MOUNTING

Panel cut-out

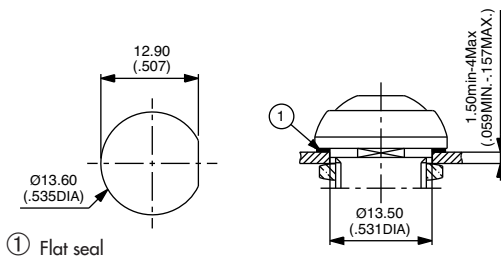


Matrix mounting



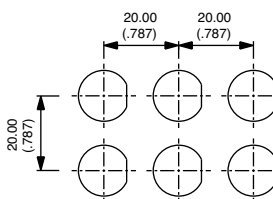
IS SERIES MOUNTING

Panel cut-out



① Flat seal

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](#)