

IB and IS series

Sealed momentary pushbutton switches

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 IP 67

ENVIRONMENTAL SPECIFICATIONS

- Degree of protection : IP 67 - See details page B36.
- 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
- Plunger : polyamide 6/6
- Bushing/bezel : polyamide 6/6
- Contacts : silver, gold plated
- Terminal seal : epoxy

ELECTRICAL AND GENERAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
400mA 32VAC - 100mA 50VDC - 125mA 125VAC
- Initial contact resistance : 50 mΩ 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 : 2N to 5N
- 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

*Example of custom switch:
see end of the series.*

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Overview

MODEL STRUCTURE

SERIES	Bezel shape	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

Plunger colour	Bezel finish	Option
1 Blue 1/4 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 Plunger

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 bracketted 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 at the end of the series and in section H.



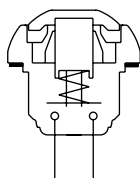
Mounting accessories : Standard hardware supplied : 1 flat seal (IB series)
1 hex nut 14 mm (.551) across flats and 1 flat seal (IS series). The hex nut is presented in section I (part number U166).



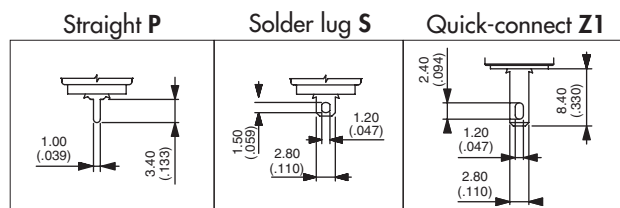
Packaging unit : 50 pieces

IB and IS series

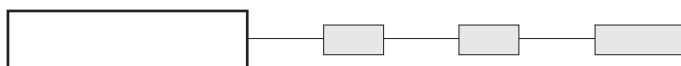
Sealed momentary pushbutton switches



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



MODEL STRUCTURE



Snap-in mounting - solder lugs

→ Flat

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



Curved actuator
IBR3SAD

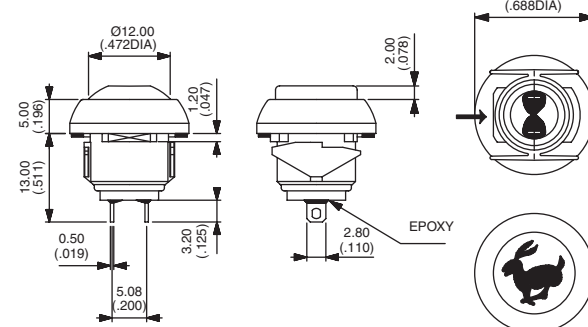


Normally open

Flat actuator
IBP3SAD



Normally open



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

Mounting by threaded bushing - solder lugs

→ Flat

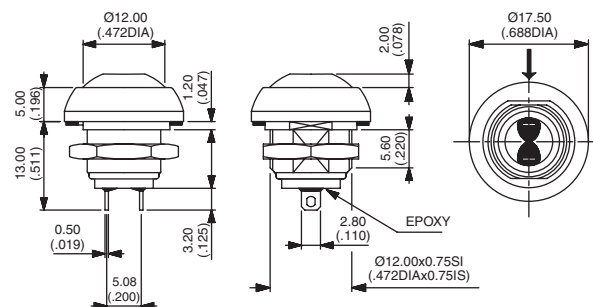
Panel thickness : 1,5 mm to 4 mm



ISR3SAD



Normally open



Also available with straight PC : **ISR3PAD** or quick-connect terminals : **ISR3Z1AD**
Also available with flat actuator. On request.

PLUNGER COLOUR

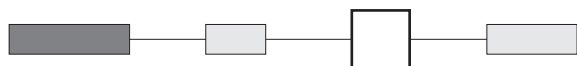


Plunger marking available on IBP models (symbol 10 mm max.). On request.



1 : blue - 1/4 : 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

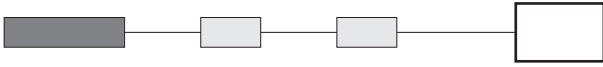


00 : Black (standard)
08 : Bright chrome (IS series only)
10 : White
20 : Satin chrome (IS series only)

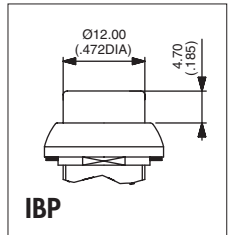
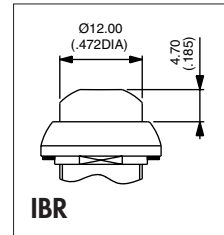
IB and IS series

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PLUNGER OPTION

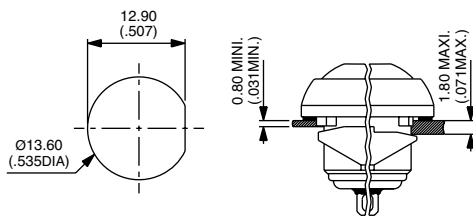


104 : High plunger

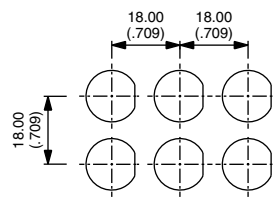


IB SERIES MOUNTING

Panel cut-out

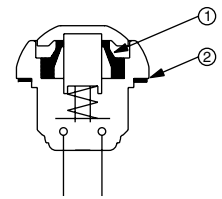


Matrix mounting



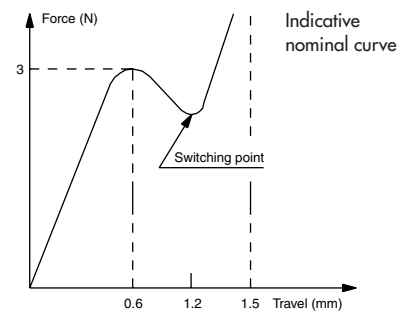
TACTILE FEEDBACK

Cross section



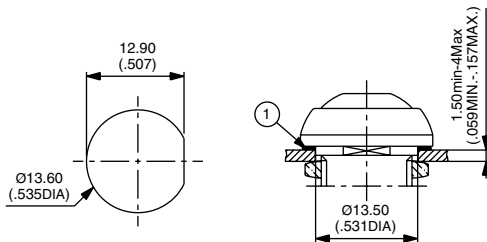
① Elastomeric membrane ② Flat seal

Operating force/travel

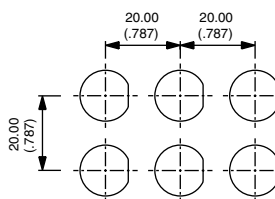


IS SERIES MOUNTING

Panel cut-out



Matrix mounting

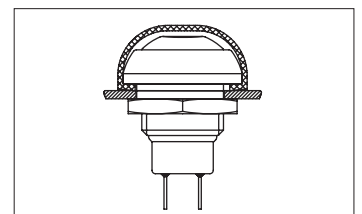
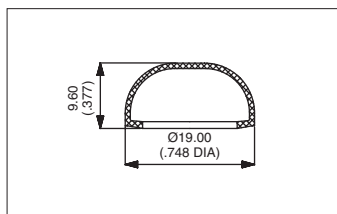


ADDITIONAL SEALING

By silicone boot for protection against frost and abrasion by sand. Order separately.

- transparent : **U5125**
- blue : **U5125-1**
- black : **U5125-2**
- red : **U5125-6**

Operating temperature : -40°C to +125°C
Life expectancy : 500.000 cycles



Example of custom switch



ISR3FADB22X1248-01

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