IM series

Sealed snap-action pushbutton switches - bushing Ø 12 mm - momentary

Distinctive features and specifications

UG1410A



- ❑ **Snap-action : tactile feedback with audible click**
- ❑ **High current/voltage rating**
- ❑ **Sealed to IP67**
- ❑ **Flat round actuator for optional marking**

B1

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
- Shock resistance : 50 g - 11 ms according to IEC 68-2-27
- Salt spray : IEC 512-6, test 11f
- Operating temperature : -40°C to +85°C
- Storage temperature : -40°C to +85°C

MATERIALS

- Case : polyamide 4/6
- 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 : 3A 28VDC
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 500 Vrms between terminals
- Electrical life at full load : 25.000 cycles

AGENCY APPROVAL

2A 125VAC/250VAC
File E83438

Availability : consult factory for details of approved models.

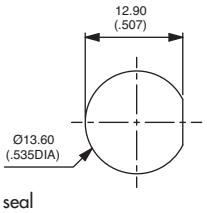
Marking : to order switches marked UL, complete approrpiate box of ordering format.

GENERAL SPECIFICATIONS

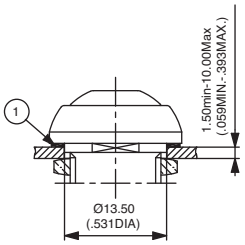
- Panel thickness : 1,5 mm (.059) to 10 mm (.394)
- Total travel : 1,7 mm (.067) +/- 0,3 mm
- Low level or mechanical life : 1.000.000 cycles
- Torque : 1,5 Nm max. applied to nut

MOUNTING - STANDARD BEZEL

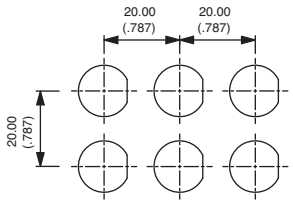
Panel cut-out



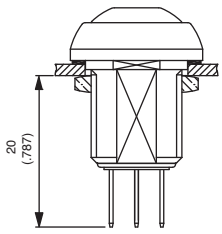
① Flat seal



Matrix mounting

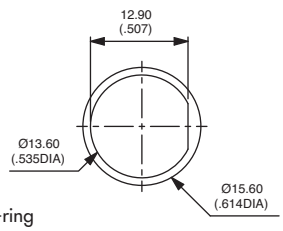


Back of panel space requirement

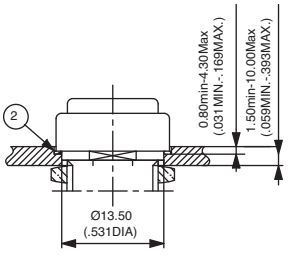


MOUNTING - REDUCED BEZEL

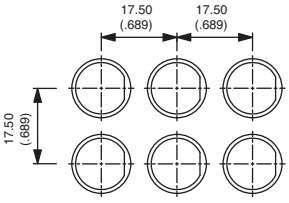
Panel cut-out



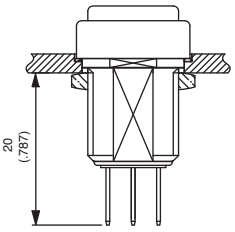
② O-ring



Matrix mounting



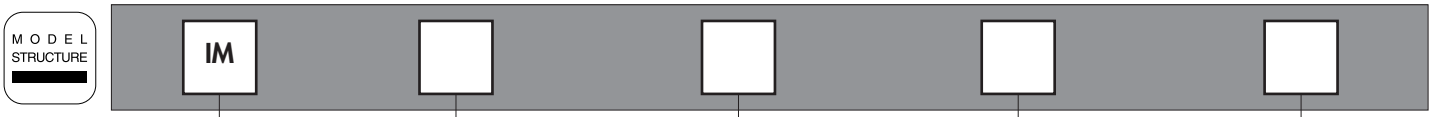
Back of panel space requirement



IM series

Sealed snap-action pushbutton switches - bushing Ø 12 mm - momentary

Overview



SERIES

Actuator shape

R	Round, curved
P	Round, flat

Electrical function

7	NC + NO

Terminals

P	Straight PC
Z	Quick-connect

Contacts

4	Silver, gold plated (standard)



Actuator colours

1	Blue
B	Dark blue
2	Black
3	Green
4	Grey
5	Yellow
6	Red
7	White
9	Orange

Bushing & bezel finish

2	Black

Other : on request

Bezel options

Blank	Standard bezel
075	Dia. 15 (.590) reduced bezel, frontal mounting
234	Dia. 15 (.590) reduced bezel, std mounting

Actuator option

Blank	Std actuator
104	High actuator

Approval

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 (P/N U5125).
It is presented after the IA series and in section H.

Mounting accessories : Standard hardware supplied : 1 flat seal (standard bezel) or 1 O-ring (reduced bezel) and 1 hex nut 14 mm (.551) acrosss flats. Hex nut part number U166.

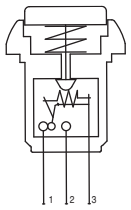
Packaging unit : 50 pieces

The company reserves the right to change specifications without notice.

IM series

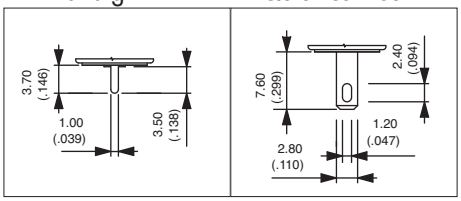
Sealed snap-action pushbutton switches - bushing Ø 12 mm - momentary

Round - non-illuminated

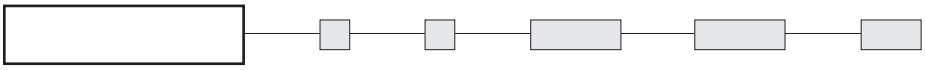


Function 7 (NC + NO)

Straight **P** Quick-connect **Z**



MODEL STRUCTURE



Common terminal identified by a horizontal dash

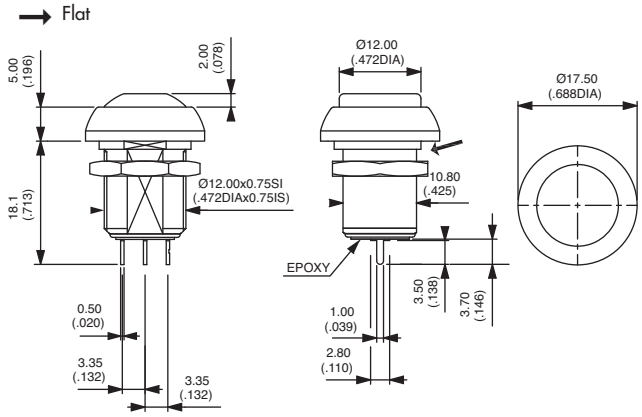
B1

Standard bezel - straight PC terminals



Curved actuator **IMR7P4** NC+NO

Flat actuator **IMP7P4** NC+NO

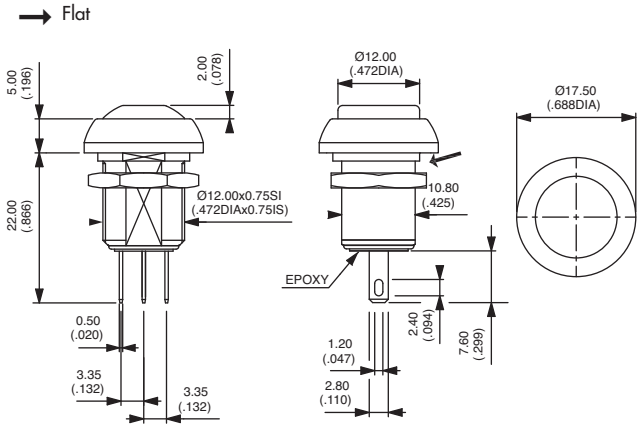


Standard bezel - quick-connect terminals

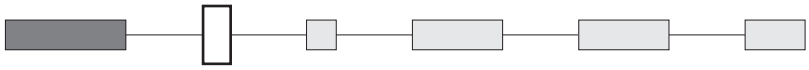


Curved actuator **IMR7Z4** NC+NO

Flat actuator **IMP7Z4** NC+NO

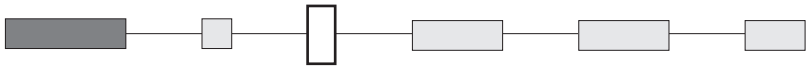


ACTUATOR COLOURS



1 : blue - **B** : dark blue - **2** : black - **3** : green - **4** : grey - **5** : yellow - **6** : red - **7** : white - **9** : orange

BUSHING AND BEZEL COLOURS



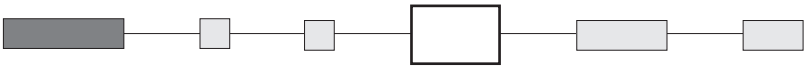
2 : black (standard)
Other : on request

IM series

Sealed snap-action pushbutton switches - bushing Ø 12 mm - momentary

Options

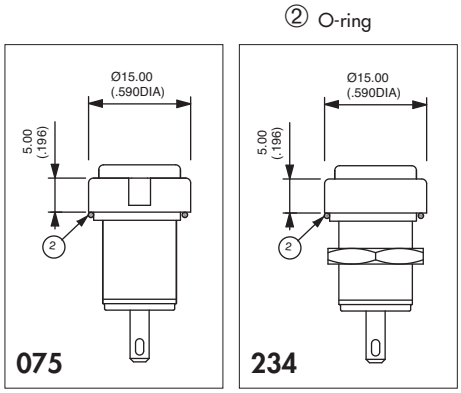
BEZEL OPTIONS



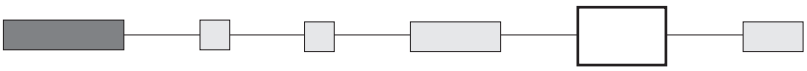
Blank Standard bezel

075 Dia. 15 (.590) reduced bezel, mounting of the switch from the front into a threaded panel cut-out

234 Dia. 15 (.590) reduced bezel, standard mounting

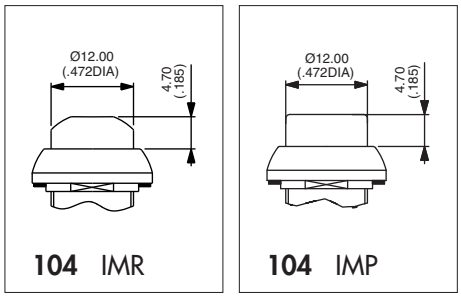


ACTUATOR OPTION

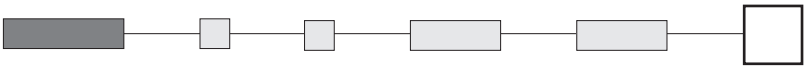


Blank Standard actuator

104 High actuator



AGENCY APPROVAL



UL

Availability : consult factory for details of approved models.
Marking : to order switches marked UL, complete above box with "UL".