

Excellent Integrated System Limited

Stocking Distributor

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[Apem Inc.](#)
[ICP3PAD2100](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

IC series

Pushbutton switches for harsh environments - short case - bushing Ø 12 mm - momentary

Distinctive features and specifications



- ☐ Momentary with short case, reduced behind-panel depth
- ☐ Tactile feedback
- ☐ Flat round actuator for optional marking
- ☐ Glossy actuator option (round curved only)
- ☐ Sealed to IP67

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
- Shock resistance : 100 g according to IEC 512-4, test 6c
- Vibration resistance : 10-500Hz - 10 g according to IEC 512-4, test 6d
- Salt spray : IEC 512-6, test 11f
- Robustness : IK06 according to EN 50102 (1 joule)
- Operating temperature : -40°C to +85°C

GENERAL SPECIFICATIONS

- Panel thickness : 1,5 mm (.059) min.
4 mm (.157 max.)
- Total travel : 1,7 mm (.067)+/- 0,3 mm
- Typical operating force : 4N +/- 2N
- Mechanical life : 1.000.000 cycles
- Torque : 1,5 Nm max. applied to nut
- Soldering : 320°C max. for 3 sec.

ELECTRICAL SPECIFICATIONS

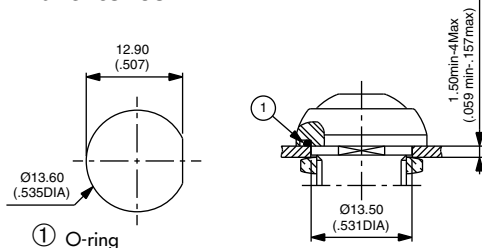
- Max. current/voltage rating with resistive load :
0,2A 48VDC, 500.000 cycles
0,5A 48VAC, 500.000 cycles
- Initial contact resistance : 50 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.500 Vrms 50 HZ between terminals

MATERIALS

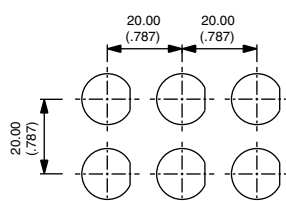
- Case : thermoplastic UL94-V0
- Actuator : polyamide 6/6
- Bushing/bezel : zinc die-cast (zamac), black painted
- Contacts : brass, gold plated
- Multi-wire lead AWG20, section 0,6 mm²
- Terminal seal : epoxy

MOUNTING

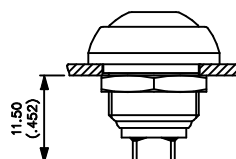
Panel cut-out



Matrix mounting



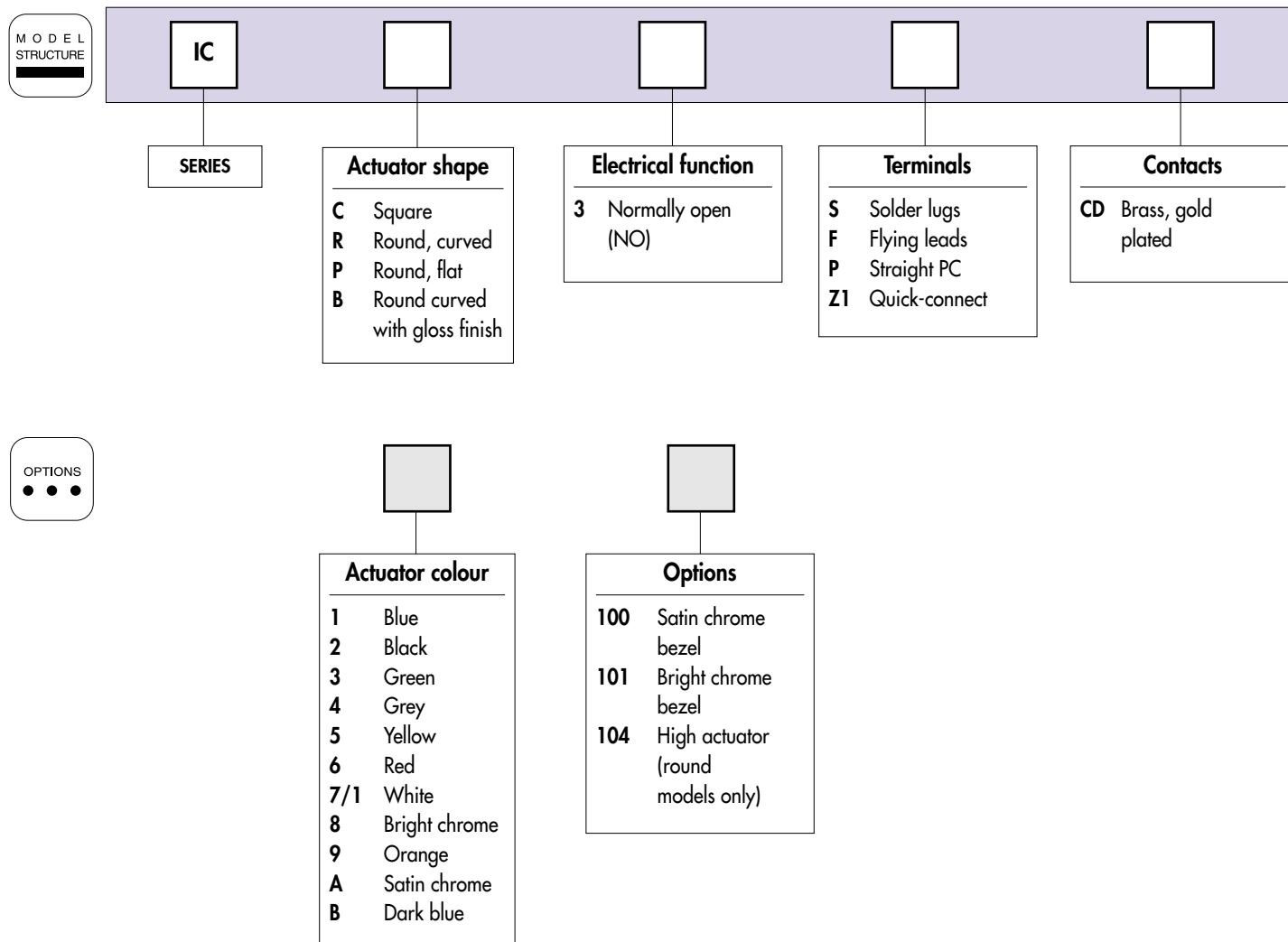
Back of panel space requirement



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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 at the end of this catalogue.



Mounting accessories : Standard hardware supplied : 1 hex nut 14 mm (.551) across flats and 1 O-ring.
Hex nut part number U166.

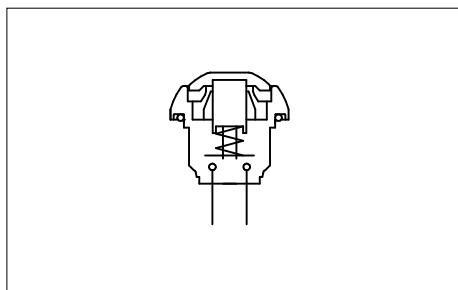


Packaging unit : 25 pieces

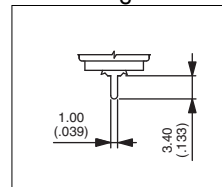
IC series

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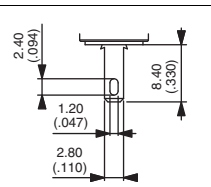
Square



Straight P



Quick-connect Z1



MODEL STRUCTURE



Solder lug terminals

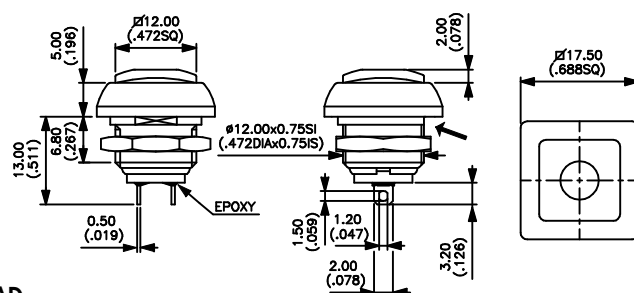
→ Flat



ICC3SCD



Normally Open



Also available with straight PC terminals : **ICC3PAD**
and quick-connect terminals : **ICC3Z1AD**

Sealed flying lead terminals

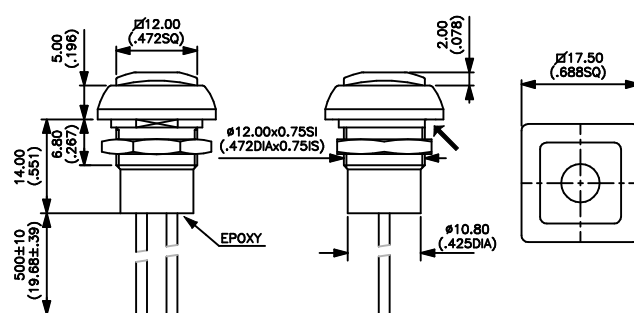
→ Flat



ICC3FCD

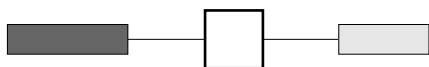


Normally Open



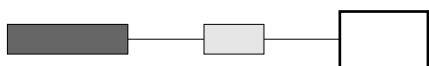
Wire colours (NC/NO) : black : NO, blue : NC

ACTUATOR COLOUR



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

OPTIONS

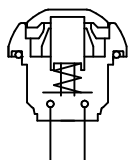


100 : Satin chrome bezel
101 : Bright chrome bezel

IC series

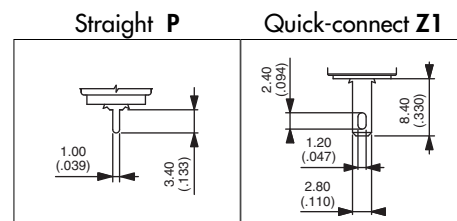
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Round



- **Gloss actuator finish**

Curved actuator also available with gloss finish - replace ICR by **ICB** in the part numbers below.



MODEL STRUCTURE



Actuator marking available on ICP models (symbol 10 mm max.). On request.

Solder lug terminals



Curved actuator
ICR3SCD

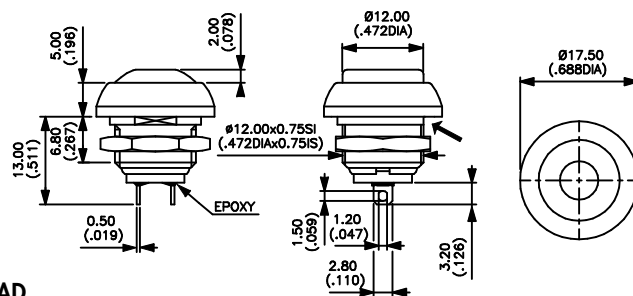


Flat actuator
ICP3SCD



Also available with straight PC terminals : **IC•3PAD**
and quick-connect terminals : **IC•3Z1AD**

→ Flat



Sealed flying lead terminals



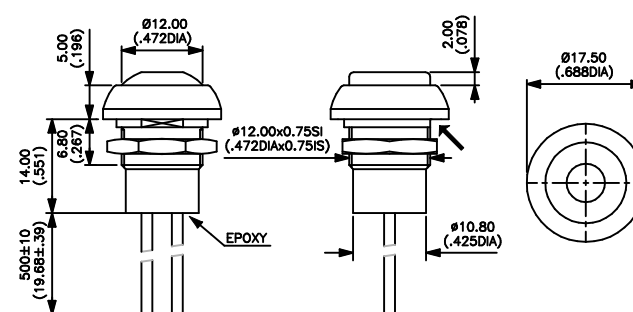
Curved actuator
ICR3FCD



Flat actuator
ICP3FCD

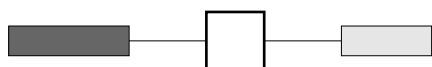


→ Flat



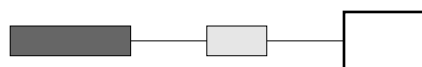
Wire colours (NC/NO) : black : NO, blue : NC

ACTUATOR COLOUR



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

OPTIONS



100 : Satin chrome bezel
101 : Bright chrome bezel
104 : High actuator

