Pushbutton switches for harsh environments • bushing Ø 12 mm • momentary



GENERAL SPECIFICATIONS

- Panel thickness: 1.5 mm (.059) min. 4 mm (.157 max.)
- Total travel:

Function 3: 1.7 mm (.067) ± 0.3 mm (0.012) Function 5: 1.3 mm $(.051) \pm 0.3$ mm (0.012)

- Typical operating force: 6 N ± 2 N
- Low level/mech. life: 1,000,000 cycles
- Torque: 1.5 Nm max. applied to nut
- Soldering: 320 °C (608 °F) max. for 3 sec.



MATERIALS

- Case: thermoplastic UL94-V0
- Actuator: polyamide 6/6
- Bushing/bezel: zinc die-cast (zamak), black painted
- Contacts: silver, gold plated (std)
 - brass, gold plated (for option 104)
- Output wires (flying lead terminals):

F version: AWG20, section 0.6 mm² W version: AWG24, section 0.23 mm²

• LED wires:

F version: AWG26, section 0.12 mm² W version: AWG24, section 0.23 mm²

- Lens: polycarbonate
- Terminal seal: epoxy

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

AGENCY APPROVAL



2 A 125 VAC/250 VAC File E83438 See following pages.



TERMINALS

ILLUMINATED MODELS

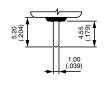






Straight P

NON-ILLUMINATED MODELS



Straight P



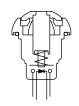
Quick-connect Z1

NON-ILLUMINATED MODELS

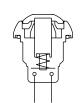


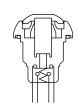
ELECTRICAL FUNCTIONS

ILLUMINATED MODELS



Function 3 (NO)

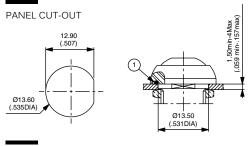




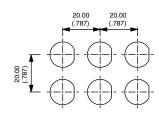
Function 3 (NO) Function 5 (NC/NO)

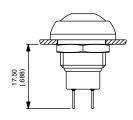


MOUNTING



MATRIX MOUNTING - BACK OF PANEL SPACE REQUIREMENT

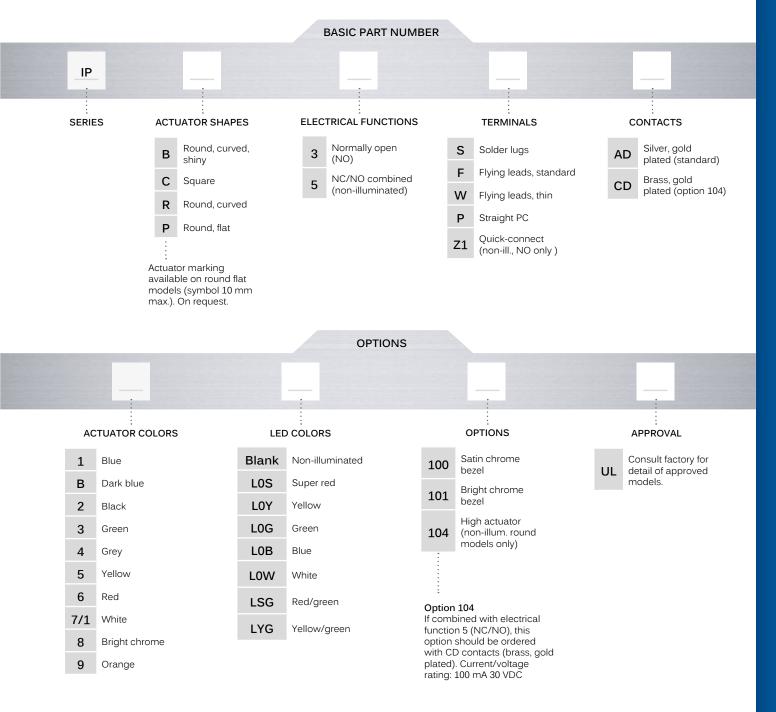




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BUILD YOUR PART NUMBER





ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- Notice: please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- (A) A sealing boot is available to protect the switches against frost and sand. See "Sealing Boots" section of website.
- Mounting accessories: Standard hardware supplied: 1 hex nut 14 mm (.551) across flats and 1 O-ring. Hex nut part number U166.

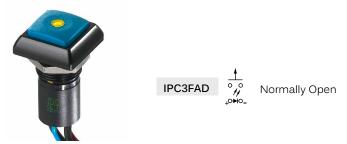
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SQUARE - ILLUMINATED SOLDER LUG TERMINALS



Also available with straight PC terminals: IPC3PAD LED color is indicated by the bottom of the switch.

SQUARE - ILLUMINATED FLYING LEAD TERMINALS



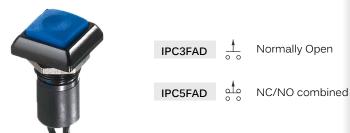
For THIN flying leads, replace F with W. Wire colors: black: NO contact, red: LED anode(+), blue: LED cathode(-) Shown with standard flying lead terminals.

SQUARE - NON ILLUMINATED SOLDER LUG TERMINALS

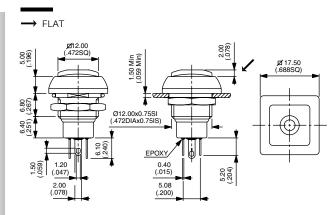


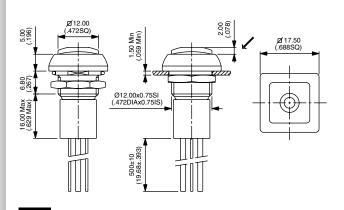
Also available with straight PC terminals: IPC3PAD (NO) or IPC5PAD (NC/NO) and quick-connect terminals: IPC3Z1AD (NO only)

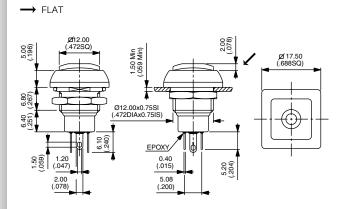
SQUARE - NON ILLUMINATED FLYING LEAD TERMINALS

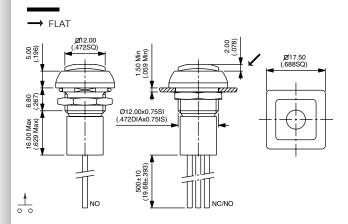


For THIN flying leads, replace F with W. Wire colors (NC/NO): black: NO, blue: NC. Shown with standard flying lead terminals.









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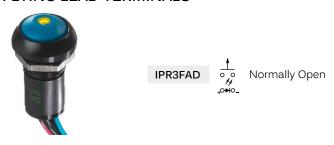
→ FLAT

ROUND - ILLUMINATED SOLDER LUG TERMINALS



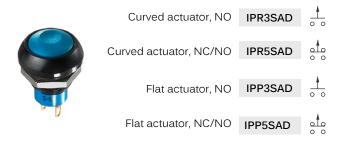
Also available with straight PC terminals: IPR3PAD LED colour is indicated by the bottom of the switch.

ROUND - ILLUMINATED FLYING LEAD TERMINALS



For THIN flying leads, replace F with W. Wire colors: black: NO contact, red: LED anode(+), blue: LED cathode(-) Shown with standard flying lead terminals.

ROUND - NON ILLUMINATED SOLDER LUG TERMINALS

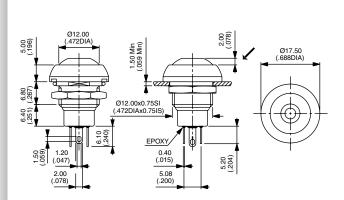


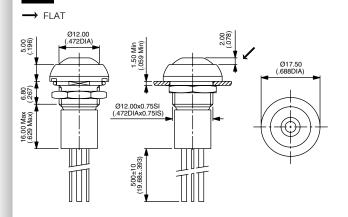
Also available with straight PC terminals: IPC3PAD (NO) or IPC5PAD (NC/NO) and quick-connect terminals: IPC3Z1AD (NO only)

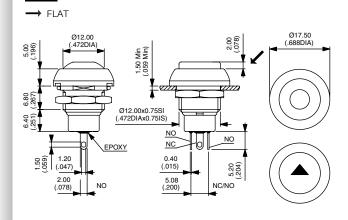
ROUND - NON ILLUMINATED FLYING LEAD TERMINALS

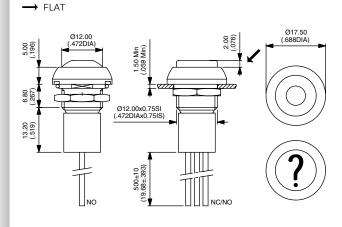


For THIN flying leads, replace F with W. Wire colors (NC/NO): black: NO, blue: NC Shown with standard flying lead terminals.

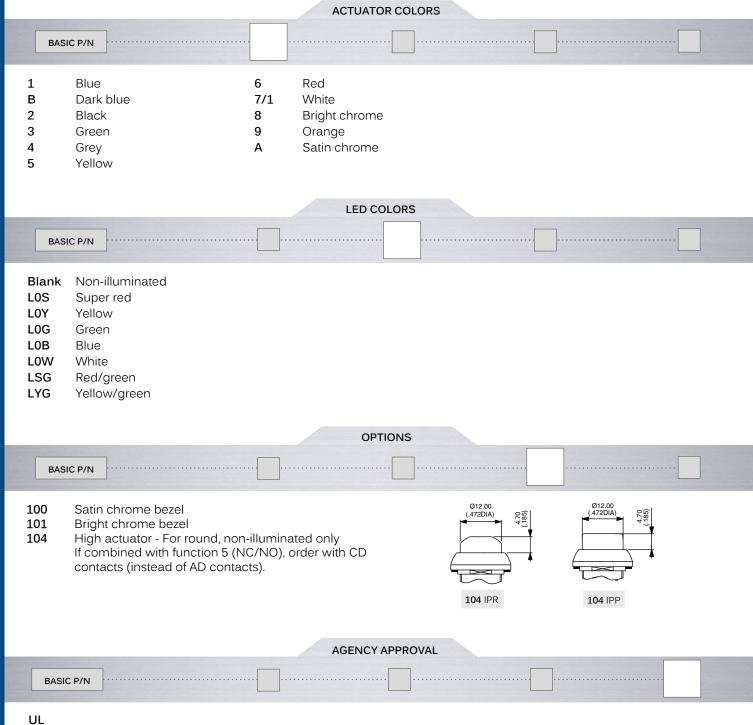








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Consult factory for details of approved models. To order switches marked UL, complete above box with "UL".