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



SWIPLATCH 1802

DISTINCTIVE FEATURES

Latching action Illuminated or non-illuminated Compact Flat round actuator for optional marking Sealed to IP67



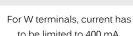
ENVIRONMENTAL SPECIFICATIONS

- 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 (non-illuminated): IK06 according to EN 62262 (1 joule)
- Operating temperature: -40 °C to +85 °C (-40 °F to +185 °F)



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load:
- 4 A 12 VDC, 200,000 cycles
- 1 A 48 VDC, 200,000 cycles
- 2 A 48 VDC, 100,000 cycles
- 3 A 48 VDC, 75,000 cycles
- 1 A 72 VDC, 15,000 cycles
- Initial contact resistance : 100 m Ω max.
- Insulation resistance : 1 G Ω min. at 500 VDC
- Dielectric strength: 1,500 Vrms between terminals 1,000 Vrms between terminals and frame







	LED COMPONENT SPECIFICATIONS		
LED color	Forward current	Typ. forward voltage	Max. forward voltage
Super red (L0S)	20 mA	1.95 V	1.95 V
Yellow (L0Y)	20 mA	2 V	2.05 V
Green (L0G)	20 mA	2.1 V	2.5 V
Blue (L0B)	20 mA	3.2 V	4 V

A resistor must be series-connected by the user. Resistor value = supply voltage - LED forward voltage

LED forward current

The company reserves the right to change specifications without notice.



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



GENERAL SPECIFICATIONS

- Panel thickness: 1.5 mm (.059) min.5.5 mm (.217) max.
- Total travel : 2.5 mm (.098) ± 0.3 mm
- Typical operating force: 10 N
- Low level/mech. life: 200.000 cycles
- Torque : 1.5 Nm max. applied to nut
- Soldering: 320 °C (608 °F) max. for 3 sec.



MATERIALS

- Case: thermoplastic, UL 94-V0
- Actuator : polyamide 6/6
- Bushing/bezel: zinc die-cast (zamak), black painted
- Contacts: silver, gold plated
- 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.

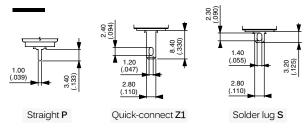
AGENCY APPROVAL



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

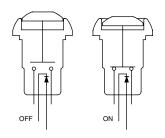


TERMINALS



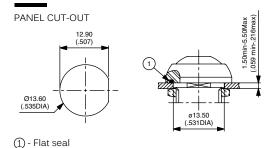


ELECTRICAL FUNCTION

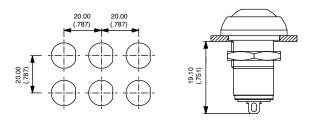




MOUNTING



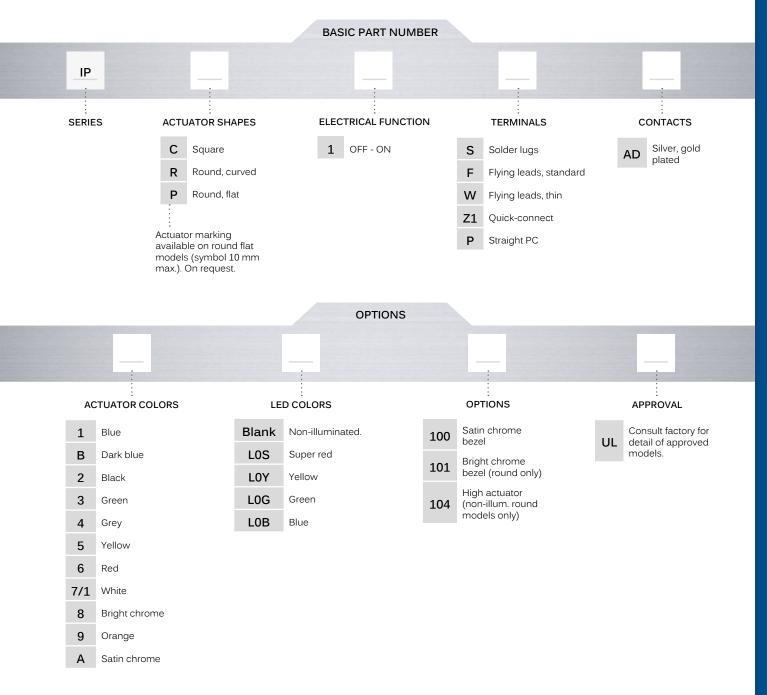
MATRIX MOUNTING - BACK OF PANEL SPACE REQUIREMENT



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



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 sealing boot is available to protect the switches against frost and sand (P/N U5125). See "Sealing Boots" section of website.
- Mounting accessories: Standard hardware supplied: 1 hex nut 14 mm (.551) across flats and 1 O-Ring

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

ILLUMINATED - SQUARE MODELS



Solder lug terminals

IPC1SAD

OFF - ON

Flying lead terminals

IPC1FAD

OFF - ON

For THIN flying leads, replace F with W.

Also available with straight PC: IPC1PAD or quick-connect terminals: IPC1Z1AD. Wire colors: black: contact, red: LED anode(+), blue: LED cathode(-)

ILLUMINATED - ROUND MODELS



Solder lug terminals

IPR1SAD

OFF - ON

Flying lead terminals

IPR1FAD

OFF - ON

For THIN flying leads, replace F with W.

Also available with straight PC: IPR1PAD or quick-connect terminals: IPR1Z1AD. Wire colors: black: contact, red: LED anode(+), blue: LED cathode(-)

NON-ILLLUMINATED - SQUARE MODELS



Solder lug terminals

IPC1SAD

OFF - ON

Flying lead terminals

IPC1FAD

OFF - ON

For THIN flying leads, replace F with W.

Also available with straight PC: IPR1PAD or quick-connect terminals: IPC1Z1AD.

NON-ILLUMINATED - ROUND MODELS



CURVED ACTUATOR

Solder lug terminals IPR1SAD OFF - ON

Flying lead terminals IPR1FAD OFF - ON

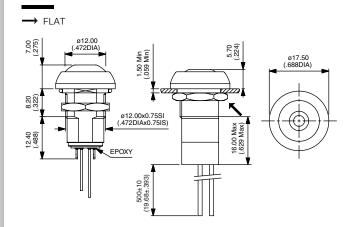
FLAT ACTUATOR

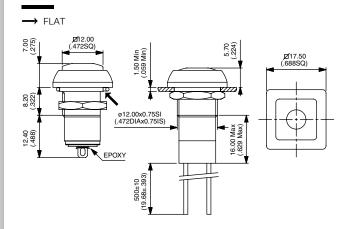
Solder lug terminals IPP1SAD OFF - ON

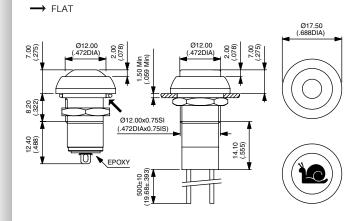
Flying lead terminals IPP1FAD OFF - ON

For THIN flying leads, replace F with W. Also available with straight PC: IP•1PAD or quick-connect terminals: IP•1Z1AD

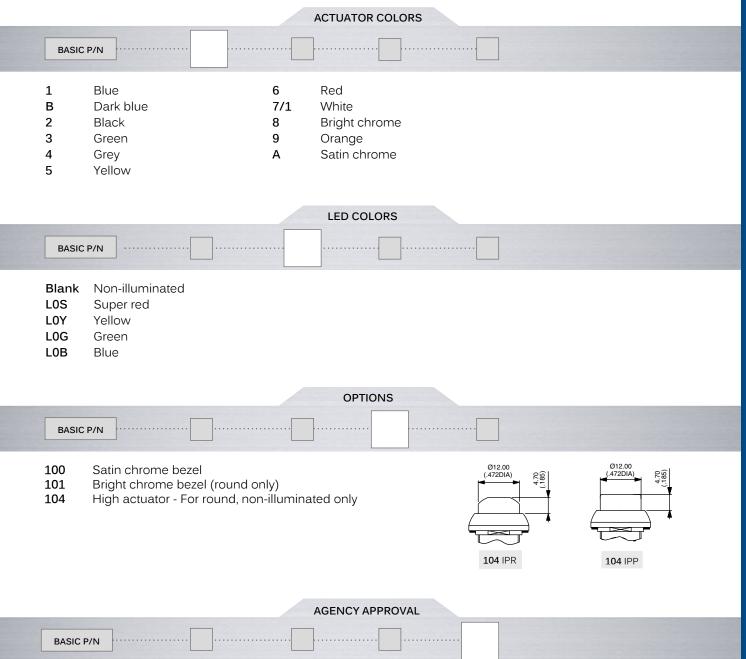
FLAT All drawings with standard flying lead terminals. $\begin{array}{c} \begin{array}{c} (g_{LZ}) \\ (g_{RZ}) \\$







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



UL

Consult factory for details of approved models.

To order switches marked UL, complete above box with "UL".

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Apem: IPR1FAD2-UL