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

For W terminals, current has

to be limited to 400 mA.

LED color	Forward current	Typ. forward voltage	Max. forward voltage
Super red (LOS)	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

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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
- \bullet 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.

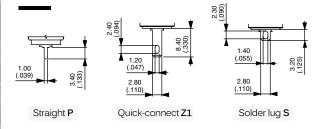
AGENCY APPROVAL



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

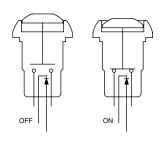


TERMINALS



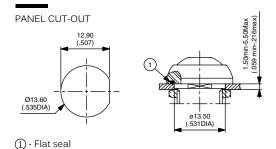


ELECTRICAL FUNCTION

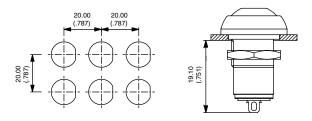




MOUNTING



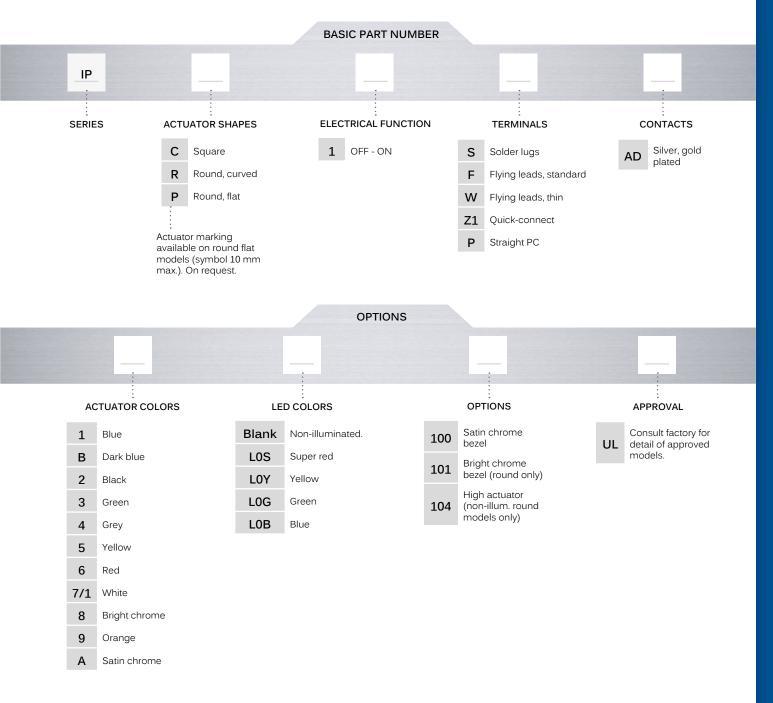
MATRIX MOUNTING - BACK OF PANEL SPACE REQUIREMENT



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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 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

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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

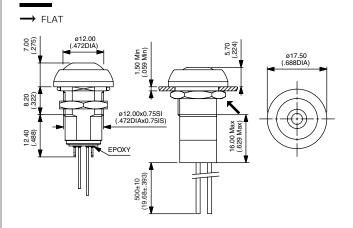
FLAT ACTUATOR

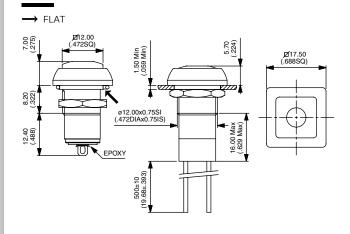
Solder lug terminals IPP1SAD OFF - ON

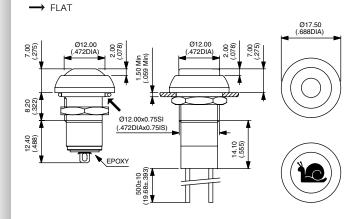
IPP1FAD OFF - ON Flying lead terminals

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

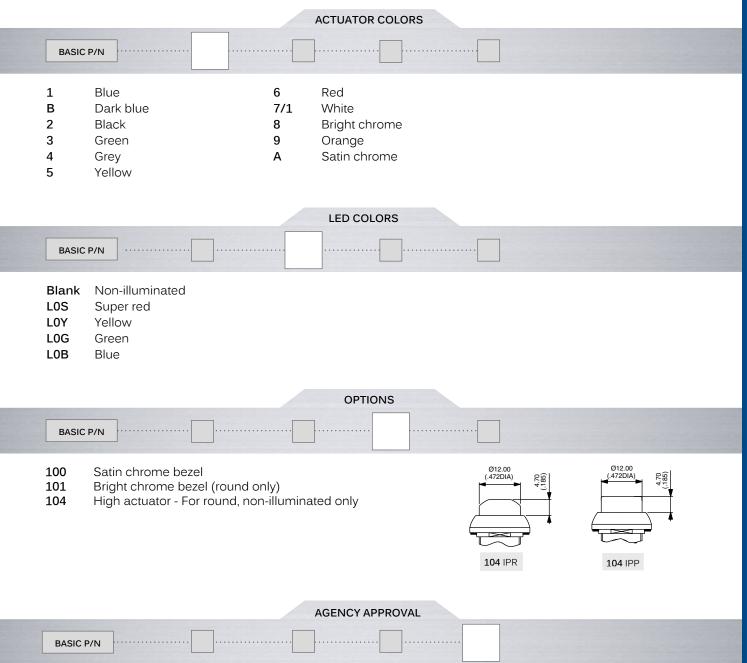
All drawings with standard flying lead terminals. 7.00 1.50 Min (.059 Min) 12.40







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UL

Consult factory for details of approved models.

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Pushbutton Switches category:

Click to view products by Apem manufacturer:

Other Similar products are found below:

LW1L-M1C10V-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M7E-HRN2 67021K512 67081K512X 701PB580 719-5504-000

MDPSSGLFS 810KSV30B MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL 8646ABUL FSDWH 9001KXRK

9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL ABD122N-B 1211390004

ABN111-Y 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047 1241.2511 1241.3428 1223A2ULCSA

1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6 1301940184 RELBARF6X10(PLASTIC)

13435AG 13440AD2G25X822+U4546 13445A4GX768