

S series

Washable miniature toggle switches •
plain bushing



DISTINCTIVE FEATURES

- Process sealed
- Front and rear sealing
- Process compatible
- Wave solderable
- Washable



ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -20 °C to +85 °C (-4 °F to +185 °F)
- Storage temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Moisture : The insulating materials employed and the complete seal permit the switches to withstand a 56 days moisture test (IEC 68-2-3).
- Solderability : The switches are tested at 235 °C (455 °F) according to IEC 68-2-20 after accelerated aging.



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - silver contacts (A) : 4 A 30 VDC
 - gold plated brass contacts (CD) : 0.4 VA 20 VAC or DC
 - gold plated silver contacts (AD) : 4 A 30 VDC (300 mA 30 VDC for gold plating)
- Initial contact resistance : 10 mΩ max.
- Insulation resistance : 1,000 MΩ min.
- Dielectric strength : 1,000 Vrms 50 Hz min.
- Electrical life at full load :

Contacts	Number of cycles	
	2 positions	3 positions
A	40,000	40,000
CD	100,000	50,000
AD	40,000	40,000

The company reserves the right to change specifications without notice.



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GENERAL SPECIFICATIONS

- Mechanical strength : Terminals are strengthened by a bracket or a ground plate ensuring the rigidity of the switch on the board. Actuator strength is 10 N max.
- Soldering - thermal shock : The switches are especially designed for flow soldering at 260 °C (500 °F) during 5 seconds owing to high temperature polymer parts.



MATERIALS

- Case and cover : UL94-VO, polyamide, glass filled or PES
- Actuator : brass, nickel plated
- Contacts
 - CD : brass, gold plated
 - A : silver
 - AD : silver, gold plated
- Terminal seal : epoxy

AGENCY APPROVALS



2 A 250 VAC
4 A 125 VAC



CECC 96201-006

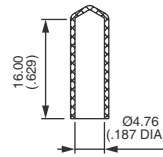


ELECTRICAL FUNCTIONS



CAP FOR PCB PROCESSING

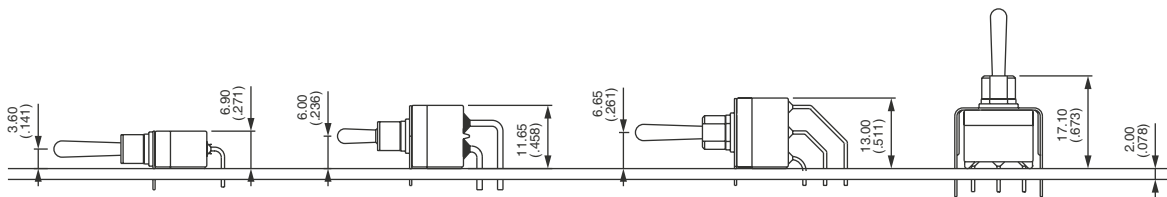
- Provide additional protection during PCB processing.
- Supplied mounted on the switch or separately.
- Material : vinyl



U3012



PCB MOUNTING

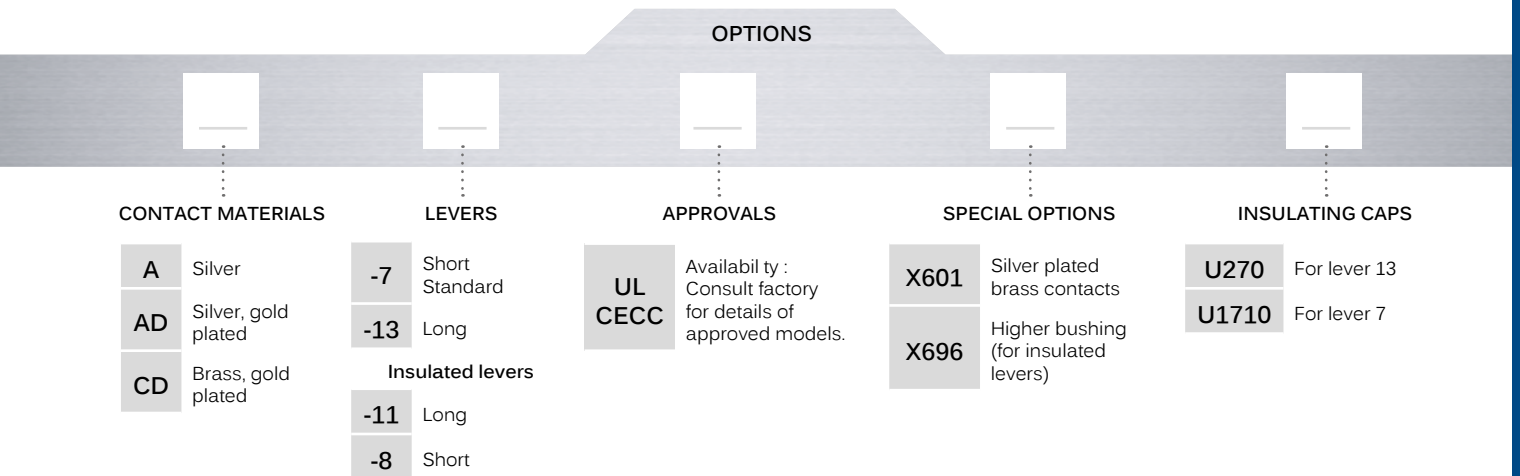
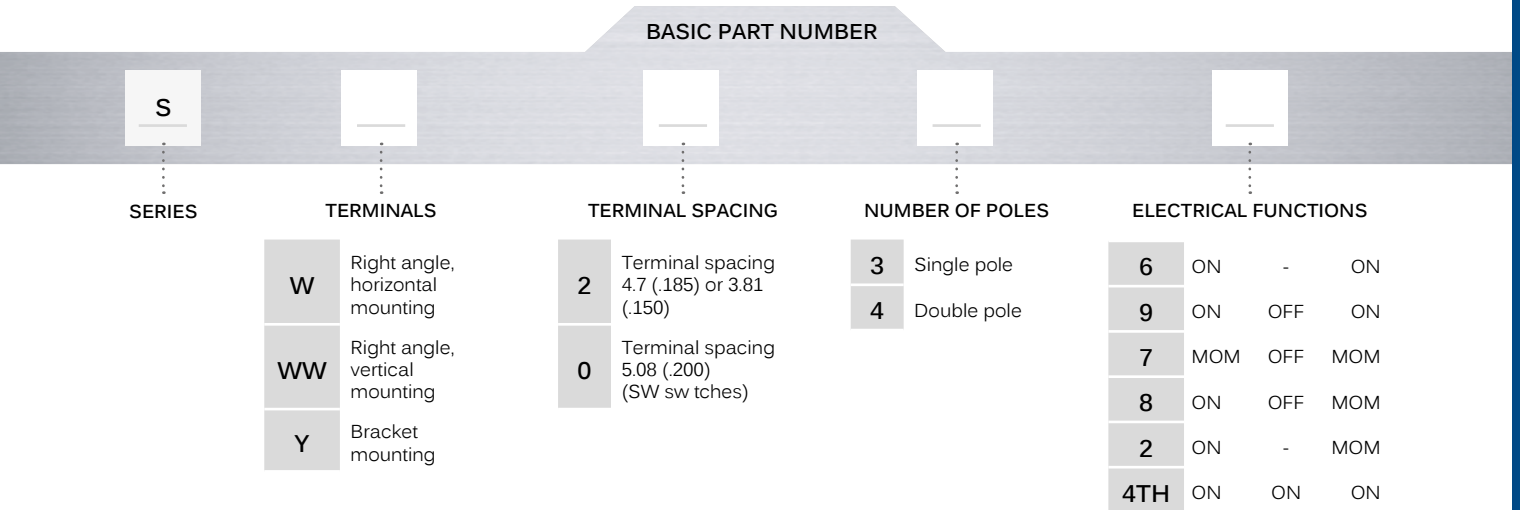


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BUILD YOUR PART NUMBER



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.

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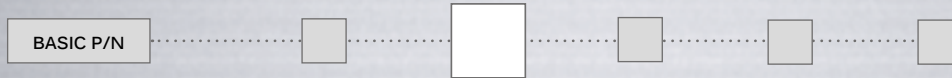
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CONTACT MATERIALS

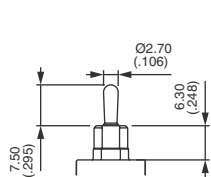


- A Silver
- AD Silver, gold plated
- AC Brass, gold plated

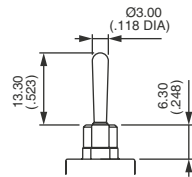
LEVERS



METAL LEVERS

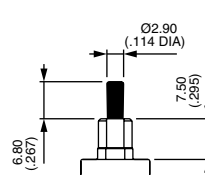


-7
Standard

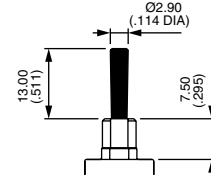


-13
Long

INSULATED LEVERS



-8
Short



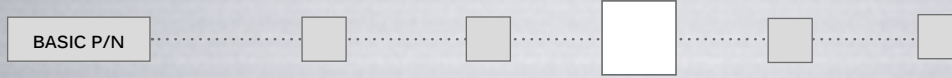
-11
Long

If actuator not specified, we supply former default option -13.

Protected against electrostatic discharges (ESD) up to 12 KV. Black color.

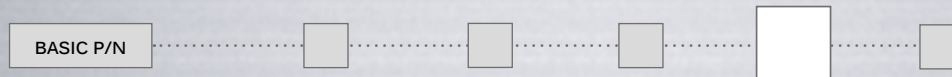
⚠ To combine with option X696.

SPECIAL OPTIONS



- X601** Silver plated brass contacts
Lower rating - Minimum quantity : 5,000 pieces per model and shipment.
- X696** Higher bushing 7.50 (.295). Compulsory for insulated levers 11 and 8.

AGENCY APPROVALS



- UL
- CECC
- Blank No agency approval required.

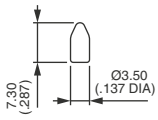
Availability : consult factory for details of approved models.

Marking : to order switches marked UL or CECC, please complete above box with desired approvals.

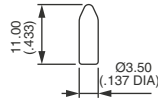
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INSULATING CAPS



U1710
For lever 7



U270
For lever 13

For cap colors, replace "0" with number :

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