

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Washable rocker and paddle switches



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).
- \bullet 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
- brass, gold plated contacts (CD): 0.4 VA 20 VAC or DC
- silver, gold plated contacts (AD): 4 A 30 VDC (300 mA 30 VDC for gold plating)
- Initial contact resistance : $10 \text{ m}\Omega$ max.
- Insulation resistance : 1,000 $M\Omega$ min.
- Dielectric strength: 1,000 Vrms 50 Hz min.
- Electrical life with nominal load :

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

The company reserves the right to change specifications without notice.





Washable rocker and paddle switches



GENERAL SPECIFICATIONS

- Mechanical strength: Terminals are strengthened by a bracket or a ground plate ensuring the rigidity of the switch on the board. Actuator strengthis 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-V0, polyamide, glass filled or PES
- Actuator : polyamide
- Contacts

CD: brass, gold plated

A: silver

AD: silver, gold plated

• Terminal seal : epoxy

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

AGENCY APPROVAL



2 A 250 VAC 4 A 125 VAC

Availability: consult factory for details of approved models.

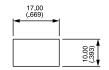
Marking: to order switches marked UL, complete appropriate box of ordering format.



PANEL CUT-OUT



With rocker U730 or paddle U700



With rocker U620 or paddle U610



ELECTRICAL FUNCTIONS





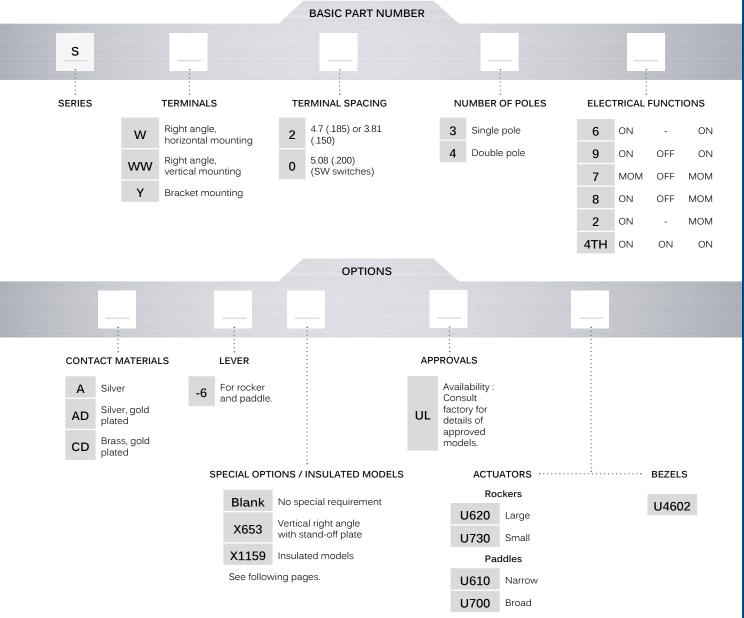
TERMINALS



Straight PC

Washable rocker and paddle switches







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.

Washable rocker and paddle switches

RIGHT ANGLE TERMINALS - HORIZONTAL SPACING 4.7 (.185)

			Ш	II	1
	Single pole	Double pole			
	SW236-6	SW246-6	ON	-	ON
. (2)	SW239-6	SW249-6	ON	OFF	ON
6 6	SW237-6	SW247-6	MOM	OFF	MOM
	SW238-6	SW248-6	ON	OFF	MOM
111	SW232-6	SW242-6	ON	-	MOM
		SW244TH-6*	ON	ON	ON

*Function 4: SP in DP case - TH connection, see "Technical information" on website. Single pole with stand-off plate, double pole without.

RIGHT ANGLE TERMINALS - VERTICAL

			Ш	II	1
	Single pole	Double pole			
0	SWW236-6	SWW246-6	ON	-	ON
-	SWW239-6	SWW249-6	ON	OFF	ON
	SWW237-6	SWW247-6	MOM	OFF	MOM
TTC	SWW238-6	SWW248-6	ON	OFF	MOM
1	SWW232-6	SWW242-6	ON	-	MOM
-		SWW244TH-6*	ON	ON	ON

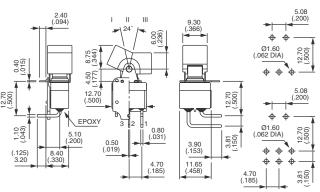
^{*}Functions 2 and 8 : reversed connection available. Consult factory.

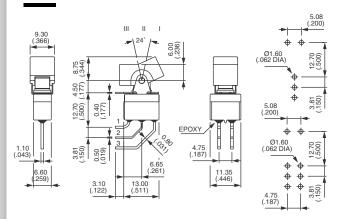
BRACKET MOUNTING

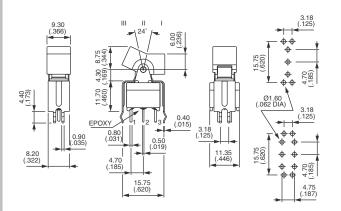
			III	П	1
	Single pole	Double pole			
	SY236-6	SY246-6	ON	-	ON
CI	SY239-6	SY249-6	ON	OFF	ON
	SY237-6	SY247-6	MOM	OFF	MOM
	SY238-6	SY248-6	ON	OFF	MOM
ZEVITITS	SY232-6	SY242-6	ON	-	MOM
14,1,1		SY244TH-6*	ON	ON	ON

*Function 4: SP in DP case - TH connection, see "Technical information" on website.

Shown with rocker U620







Washable rocker and paddle switches

CONTACT MATERIALS

BASIC P/N

A Silver

AD Silver, gold plated CD Brass, gold plated

SPECIAL OPTIONS / INSULATED MODELS

Ш

BASIC P/N

X601

Silver plated brass contacts

Current/voltage rating for an electrical life of 20,000 cycles: 0.5 A 30 VDC

Ш

-6

-6

Minimum quantity: 5,000 per type and shipment.

X653 Vertical right angle with stand-off plate

X1159 Insulated model protected against E.S.D. up to 12 KV - Vertical right angle

Available with all actuators shown on next page.





Single pole			
SWW236-6 X653	ON	-	ON
SWW239-6 X653	ON	OFF	ON
SWW237-6 X653	MOM	OFF	MOM
SWW238-6 X653	ON	OFF	MOM
SWW232-6 X653	ON	-	MOM
Double pole			
SWW246-6 X653	ON	-	ON
SWW249-6 X653	ON	OFF	ON
SWW247-6 X653	MOM	OFF	MOM
SWW248-6 X653**	ON	OFF	MOM
SWW242-6 X653**	ON	-	MOM
SWW244TH-6 X653*	ON	ON	ON

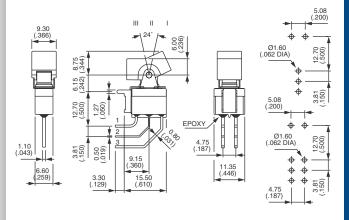
OPTION X1159

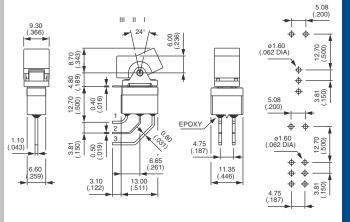


Ш	Ш	1
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM
ON	ON	ON
	ON ON ON ON ON ON	ON - ON OFF ON OFF ON - ON - ON OFF MOM OFF ON OFF ON OFF ON OFF

* Function 4 : SP in DP case - TH connection, see "Technical information" on website.

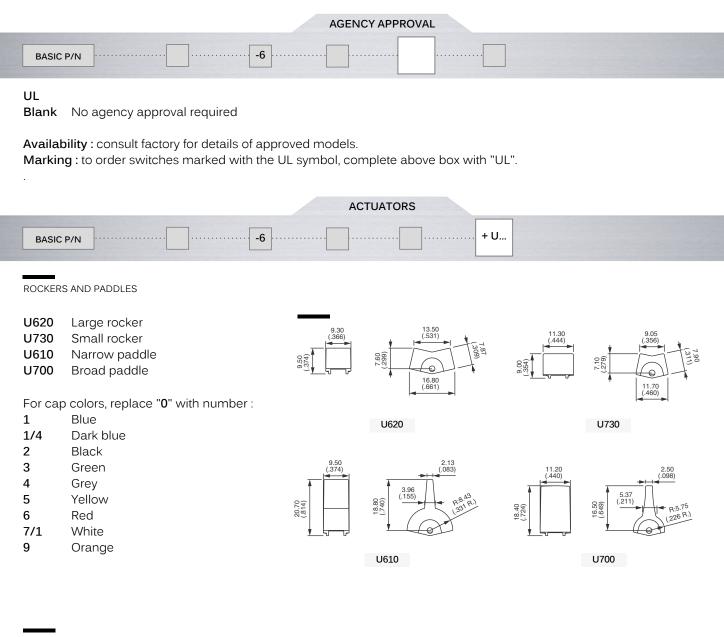
Shown with rocker U620





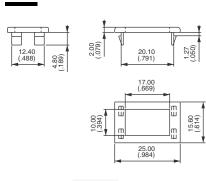
^{**} Functions 2 and 8: reversed connection available. Consult factory.

Washable rocker and paddle switches



BEZEL

U4602 Black bezel - for rocker U620 only



U4602

Washable rocker and paddle switches



DISTINCTIVE FEATURES

Process sealed Front and rear sealing Large rocker



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).
- Iron soldering: 300 °C (572 °F) 5 sec. max.
- 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
- brass, gold plated contacts (CD): 0.4 VA 20 VAC or DC
- silver, gold plated contacts (AD) : 4 A 30 VDC (300 mA 30 VDC for gold plating)
- Initial contact resistance : 10 m Ω max.
- Insulation resistance : 1,000 M Ω min.
- Dielectric strength: 1,000 Vrms 50 Hz min.
- Electrical life with nominal load :

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



GENERAL SPECIFICATIONS

 Mechanical strength: Terminals are strengthened by a ground plate ensuring the rigidity of the switch on the board. Actuator strength is 10 N max.

The company reserves the right to change specifications without notice.





Washable rocker and paddle switches

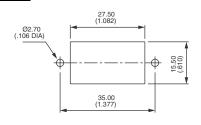


MATERIALS

- Case and cover: UL94-V0, polyamide, glass filled or PES
- Actuator : polyamide
- Contacts
 - 0: brass, gold plated
 - 1: silver
- 2: silver, gold plated
- 5: special, lower rating
- Terminal seal : epoxy

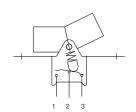


PANEL CUT-OUT



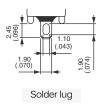


ELECTRICAL FUNCTIONS





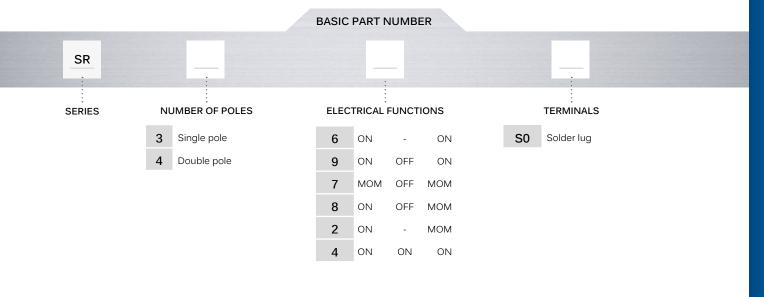
TERMINALS

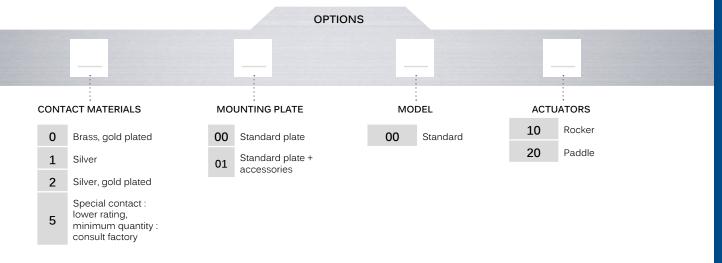


Washable rocker and paddle switches



BUILD YOUR PART NUMBER







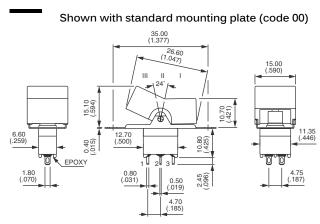
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Washable rocker and paddle switches





CONTACT MATERIALS

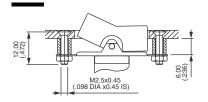
BASIC P/N

- 0 Brass, gold plated
- 1 Silver
- 2 Silver, gold plated
- Special contact, lower rating, minimum quantity: consult factory.

MOUNTING PLATE

BASIC P/N

- 00 Standard mounting plate
- 01 Standard mounting plate + mounting accessories (spacers, screws and nuts)



ACTUATORS

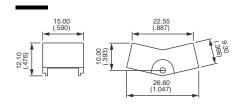
10 Rocker

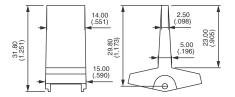
BASIC P/N

20 Paddle

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





20

10