

S and SR series

Washable rocker and paddle switches

Distinctive features and specifications



❑ Sealed

- Secure assembly of the two case parts
- Internally sealed bushing
- Epoxy sealed terminals

❑ Process compatible (S series)

- Wave solderable
- Washable

❑ Optional ESD protection

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - silver contacts (A or 1) : 2A 250VAC - 5A 125VAC - 4A 30VDC
 - brass, gold plated contacts (CD or 0) : 0,4VA 20VAC or DC
 - silver, gold plated contacts (AD or 2) : 2A 250VAC - 5A 125VAC - 4A 30VDC (300mA 30VDC 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 with nominal load :

Contacts	Number of cycles	
	2 positions	3 positions
A or 1	40.000	40.000
CD or 0	100.000	50.000
AD or 2	40.000	40.000

MATERIALS

- Case and cover : UL94-V0, polyamide, glass filled or PES
- Actuator : polyamide
- Contacts
 - CD or 0** : brass, gold plated
 - A or 1** : silver
 - AD or 2** : silver, gold plated
- Terminal seal : epoxy

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 10N max.
- Operating temperature : -20°C to +85°C
- Storage temperature : -40°C to +85°C
- Moisture :
The insulating materials employed and the complete seal permit the switches to withstand a 56 days moisture test (IEC 68-2-3).
- Soldering - thermal shock (S series only) :
The switches are especially designed for flow soldering at 260°C during 5 seconds owing to high temperature polymer parts.
- Iron soldering (SR series) : 300°C 5 sec. max.
- Solderability : The switches are tested at 235°C according to IEC 68-2-20 after accelerated aging.

AGENCY APPROVALS



Availability : consult factory for details of approved models.

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

S series

Washable rocker and paddle switches

Overview

MODEL
STRUCTURE

SERIES	Terminals	Bushing and terminals	Number of poles	Electrical functions
S	W Right angle, horizontal mounting WW Right angle, vertical mounting Y Bracket mounting	2 Terminal spacing 4,7 (.185) or 3,81 (.150) 0 Terminal spacing 5,08 (.200) (SW switches)	3 Single pole 4 Double pole	6 ON - ON 9 ON OFF ON 7 MOM OFF MOM 8 ON OFF MOM 2 ON - MOM 4TH ON ON ON

OPTIONS

Contact materials	Lever	Special options / insulated models	Approvals	Actuators
A Silver AD Silver, gold plated CD Brass, gold plated	-6 For rocker and paddle.	Blank No special requirement X653 Vertical right angle with stand-off plate X1159 Insulated models See following pages.	UL Availability : Consult factory for details of approved models.	Rockers U620 Large U730 Small Paddles U610 Narrow U700 Broad

Bezels
For SK models U1200 U1210 For LED For SW, SWW and SY models U4602

ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
- options in the same order as above

Specifications are on previous page.

Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.



NOTICE : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

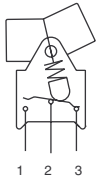


Packaging unit : 25 pieces to 50 pieces depending on models.

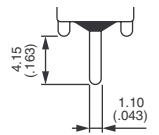
S series

Washable rocker and paddle switches

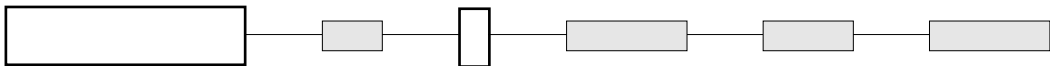
MODEL
STRUCTURE



- Straight PC or right angle terminals
- Models with snap-in mounting (SK)
- Terminal spacing 4,7 (.185) or 5,08 (.200) on SW switches
- 1 and 2 pole configurations



MODEL
STRUCTURE



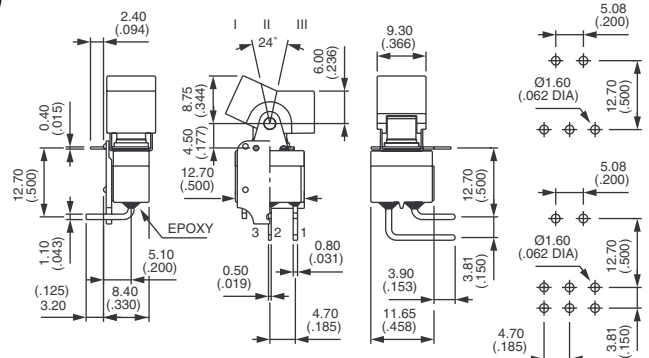
Shown with rocker U620

Right angle terminals - horizontal - spacing 4,7 (.185)



Single pole Double pole

		III	II	I
SW236-6	SW246-6	ON	-	ON
SW239-6	SW249-6	ON	OFF	ON
SW237-6	SW247-6	MOM	OFF	MOM
SW238-6	SW248-6	ON	OFF	MOM
SW232-6	SW242-6	ON	-	MOM
	SW244TH-6*	ON	ON	ON



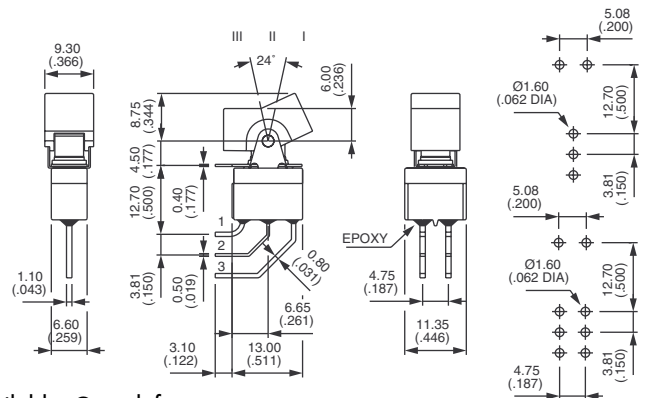
Single pole with stand-off plate, double pole without.

Right angle terminals - vertical



Single pole Double pole

		III	II	I
SWW236-6	SWW246-6	ON	-	ON
SWW239-6	SWW249-6	ON	OFF	ON
SWW237-6	SWW247-6	MOM	OFF	MOM
SWW238-6	SWW248-6**	ON	OFF	MOM
SWW232-6	SWW242-6**	ON	-	MOM
	SWW244TH-6*	ON	ON	ON



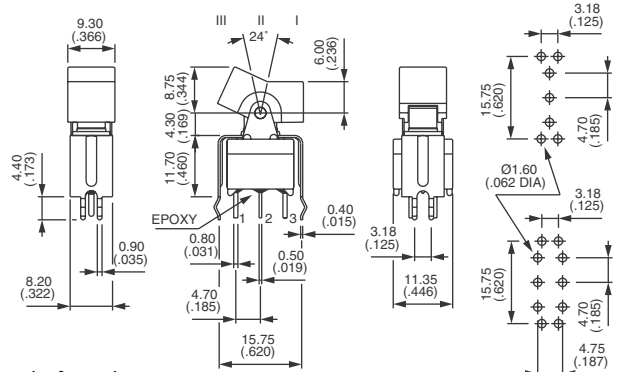
** Functions 2 and 8 : reversed connection available. Consult factory.

Bracket mounting



Single pole Double pole

		III	II	I
SY236-6	SY246-6	ON	-	ON
SY239-6	SY249-6	ON	OFF	ON
SY237-6	SY247-6	MOM	OFF	MOM
SY238-6	SY248-6	ON	OFF	MOM
SY232-6	SY242-6	ON	-	MOM
	SY244TH-6*	ON	ON	ON



* Function 4 : SP in DP case - TH connection, see end of catalogue.

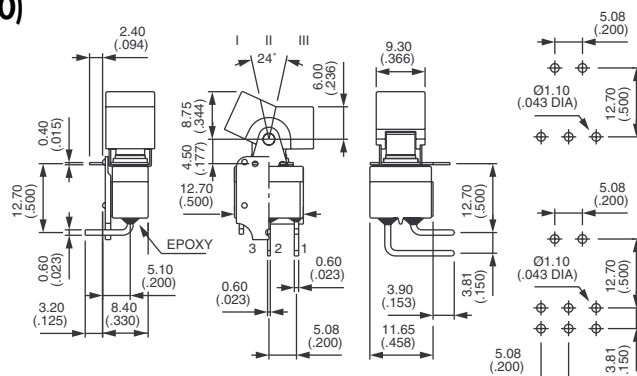
S series

Washable rocker and paddle switches

Right angle terminals - horizontal - spacing 5,08 (.200)



		III	II	I
Single pole	Double pole			
SW036-6	SW046-6	ON	-	ON
SW039-6	SW049-6	ON	OFF	ON
SW037-6	SW047-6	MOM	OFF	MOM
SW038-6	SW048-6	ON	OFF	MOM
SW032-6	SW042-6	ON	-	MOM
	SW044TH-6*	ON	ON	ON

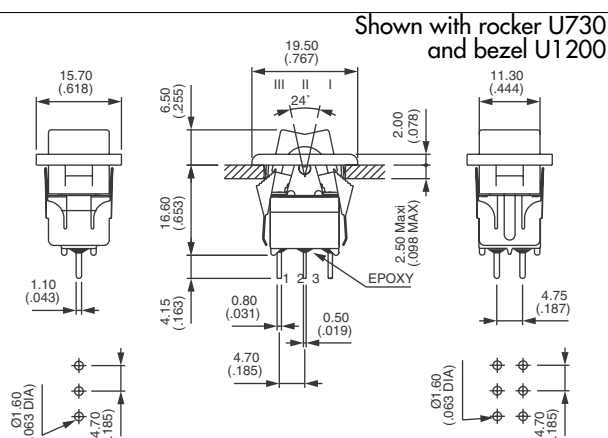


Single pole with stand-off plate, double pole without.

Straight PC terminals - snap-in mounting



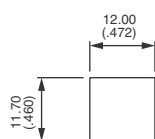
		III	II	I
Single pole	Double pole			
SK236-6	SK246-6	ON	-	ON
SK239-6	SK249-6	ON	OFF	ON
SK237-6	SK247-6	MOM	OFF	MOM
SK238-6	SK248-6	ON	OFF	MOM
SK232-6	SK242-6	ON	-	MOM
	SK244TH-6*	ON	ON	ON



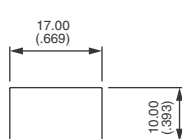
Shown with rocker U730 and bezel U1200

* Function 4 : SP in DP case - TH connection, see end of catalogue.

PANEL CUT-OUT

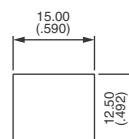


With rocker **U730**
or paddle **U700**



With rocker **U620**
or paddle **U610**

For SK only

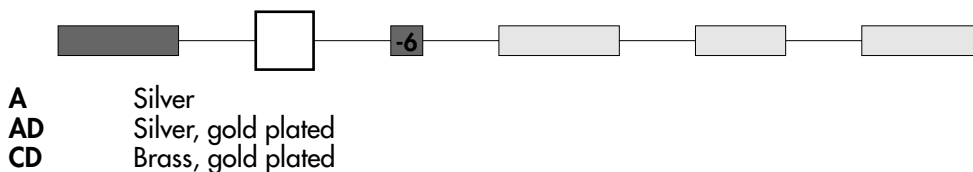


S series

Washable rocker and paddle switches

OPTIONS

CONTACT MATERIALS



SPECIAL OPTIONS / INSULATED MODELS



X653 Vertical right angle with stand-off plate

Shown with rocker U620



Single pole

SWW236-6 X653
SWW239-6 X653
SWW237-6 X653
SWW238-6 X653
SWW232-6 X653

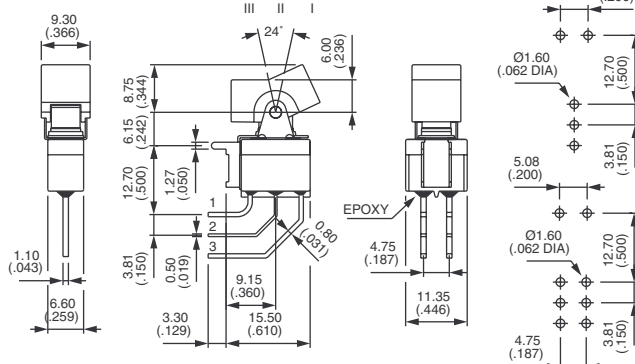
III II I

ON - ON
ON OFF ON
MOM OFF MOM
ON OFF MOM
ON - MOM

Double pole

SWW246-6 X653
SWW249-6 X653
SWW247-6 X653
SWW248-6 X653**
SWW242-6 X653**
SWW244TH-6 X653*

ON - ON
ON OFF ON
MOM OFF MOM
ON OFF MOM
ON - MOM
ON ON ON



* Function 4 : SP in DP case - TH connection, see end of catalogue.

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

X601

Silver plated brass contacts

Current/voltage rating for an electrical life of 20.000 cycles :

0,2A 250VAC - 0,4A 125VAC - 0,5A 30VDC

Minimum quantity : 5.000 per type and shipment.

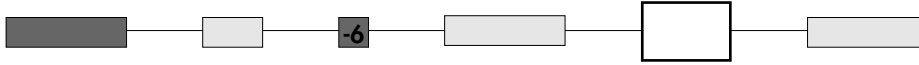
S series

Washable rocker and paddle switches

OPTIONS



AGENCY APPROVAL

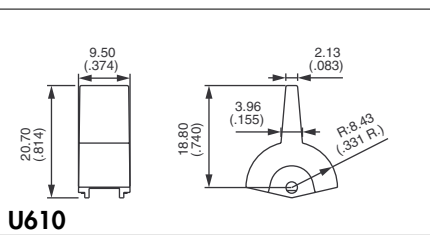
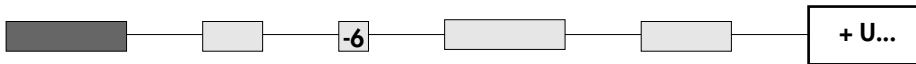


UL

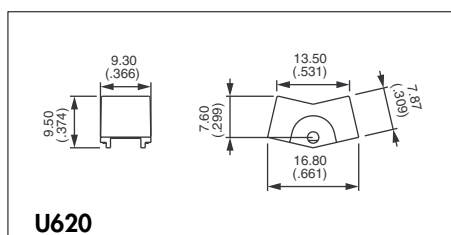
Availability : consult factory for details of approved models.

Marking : to order switches marked with the UL symbol, complete above box with "UL".
Blank : no agency approval required.

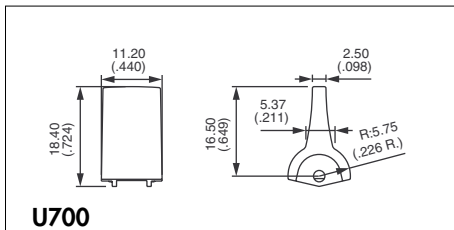
ACTUATORS



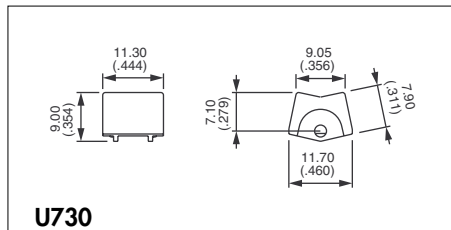
Narrow paddle



Large rocker



Broad paddle



Small rocker

Actuator colours

Replace last "0" by number

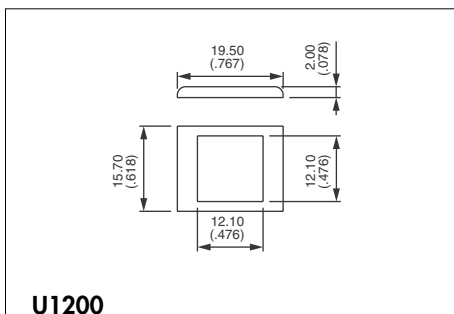
- | | |
|-----|-----------|
| 1 | blue |
| 1/4 | dark blue |
| 2 | black |
| 3 | green |
| 4 | grey |
| 5 | yellow |
| 6 | red |
| 7 | ivory |
| 7/1 | white |
| 9 | orange |



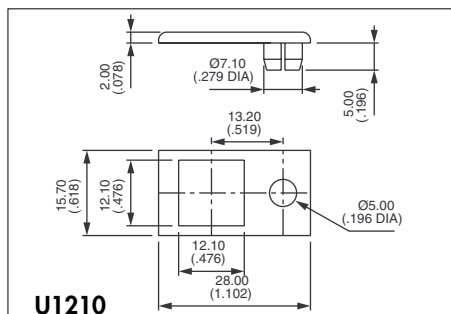
U610 and U620 not available on SK models

Bezels for SK model (snap-in)

Add bezel part number to actuator part number.

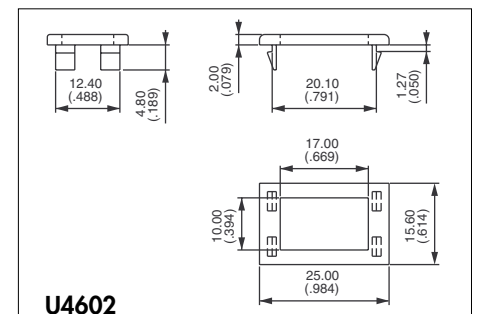


Bezel



Bezel for LED Ø 5 (.196) - not supplied

Bezel for SW - SWW and SY models



Black bezel - for rocker U620 only

SR series

Washable rocker and paddle switches

Overview

MODEL
STRUCTURE

SR

SERIES

Number of poles

- 3 Single pole
- 4 Double pole

Electrical functions

6	ON	-	ON
9	ON	OFF	ON
7	MOM	OFF	MOM
8	ON	OFF	MOM
2	ON	-	MOM
4	ON	ON	ON

Terminals

50 Solder lug

OPTIONS

Contact materials

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

Mounting plate

- 00 Standard plate
- 01 Standard plate +
accessories

Model

- 00 Standard

Actuators

- 10 Rocker
- 20 Paddle

ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
- options in the same order as above

Specifications are at the beginning of this section (S and SR series).

Dimensions : first dimensions are in mm while inches are shown as bracketted numbers.



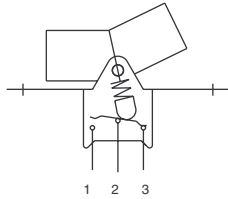
Packaging unit : 20 pieces.

SR series

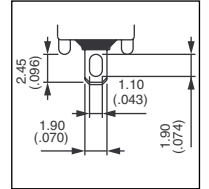
Washable rocker and paddle switches

Solder lug terminals

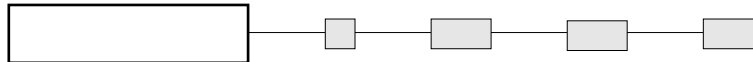
MODEL
STRUCTURE



- 1 and 2 pole configurations
- Iron soldering 300°C max. 5 seconds max.



MODEL
STRUCTURE



Shown with standard mounting plate (code 00)

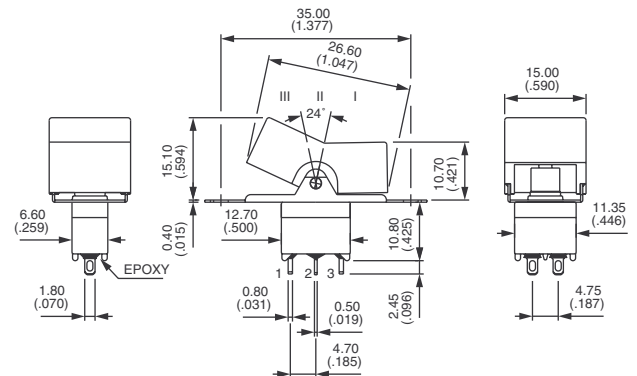
Solder lug terminals



Single pole Double pole

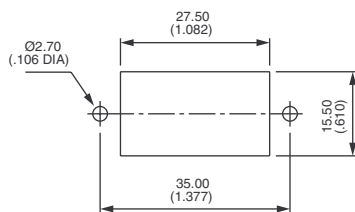
SR36S0	SR46S0
SR39S0	SR49S0
SR37S0	SR47S0
SR38S0	SR48S0
SR32S0	SR42S0
	SR44S0*

III	II	I
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM
ON	ON	ON



* Function 4 : SP in DP case - TH connection, see end of catalogue.

PANEL CUT-OUT

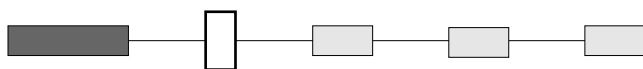




SR series

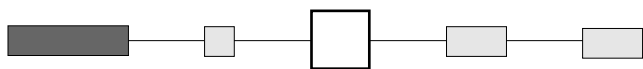
Washable rocker and paddle switches

CONTACT MATERIALS

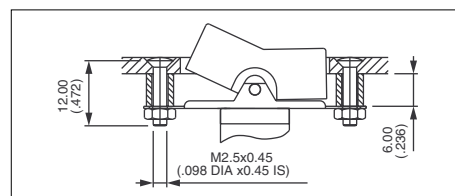


- 0** Brass, gold plated
- 1** Silver
- 2** Silver, gold plated
- 5** Special contact, lower rating, minimum quantity : consult factory.

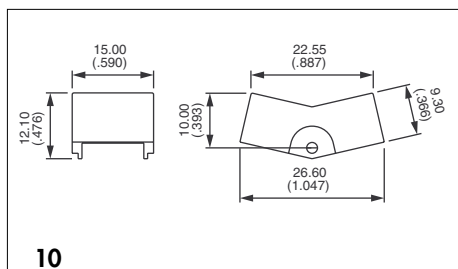
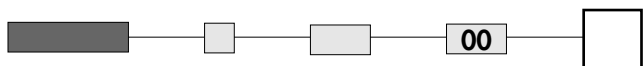
MOUNTING PLATE



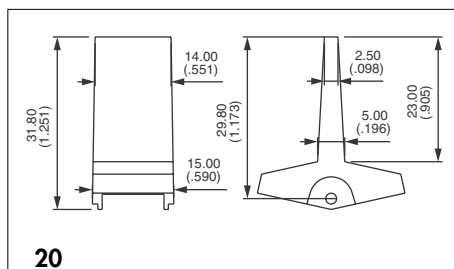
- 00** Standard mounting plate
- 01** Standard mounting plate + mounting accessories (spacers, screws and nuts)



ACTUATORS



10
Rocker



20
Paddle

Actuator colours	
Replace "0" by number	
1	blue
1/4	dark blue
2	black
3	green
4	grey
5	yellow
6	red
7	ivory
7/1	white
9	orange