

S and SR series

Washable rocker and paddle switches

Distinctive features and specifications

UG1410A



☐ 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) : 4A 30VDC
 - brass, gold plated contacts (CD or 0) : 0,4VA 20VAC or DC
 - silver, gold plated contacts (AD or 2) : 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



2A 250VAC
4A 125VAC

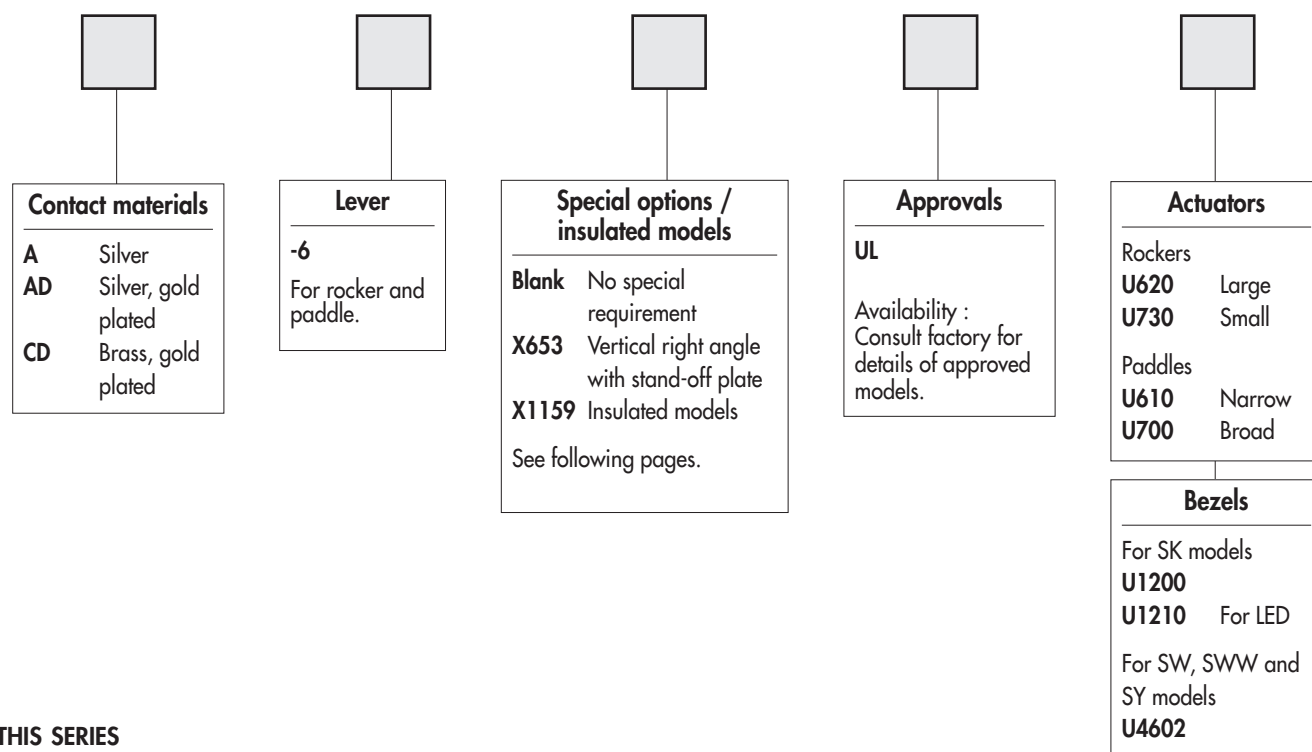
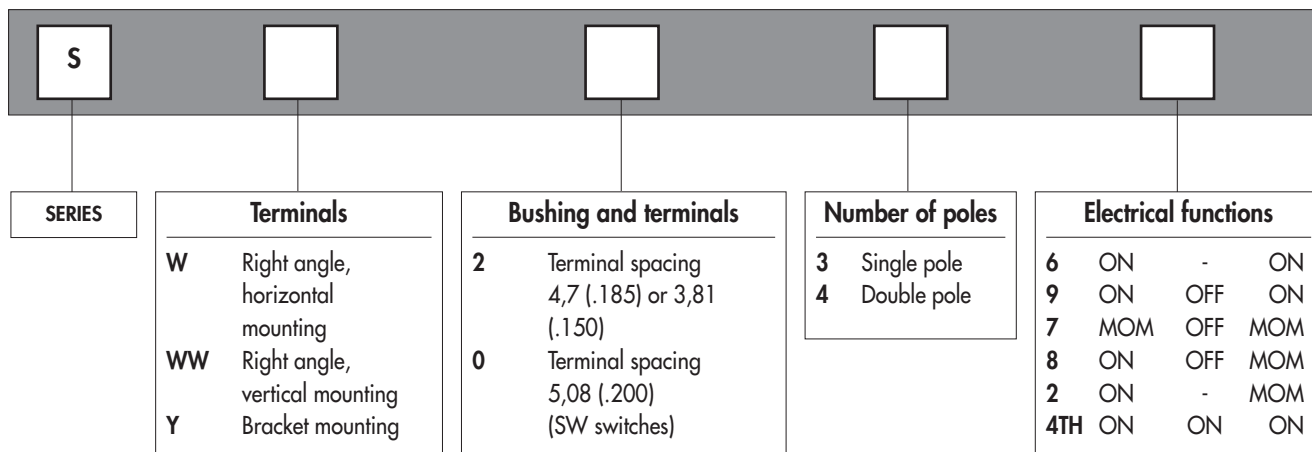
Availability : consult factory for details of approved models.

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

S series

Washable rocker and paddle switches

Overview



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.

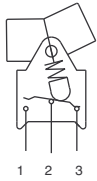


Packaging unit : 25 pieces to 50 pieces depending on models.

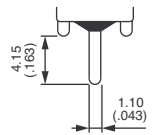
S series

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

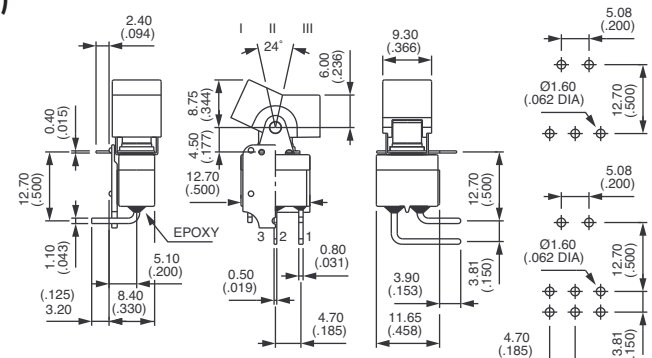
Right angle terminals - horizontal - spacing 4,7 (.185)



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.

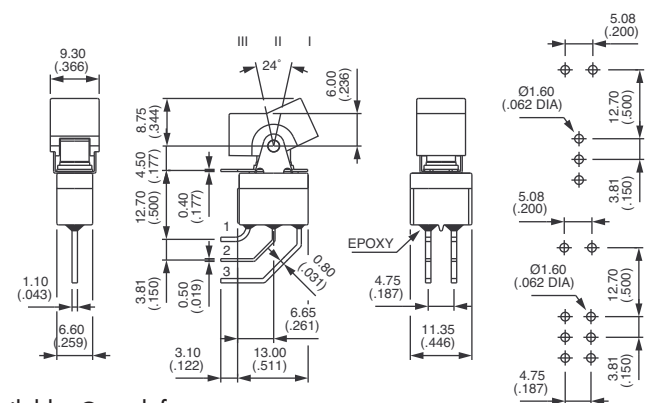
Right angle terminals - vertical



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.

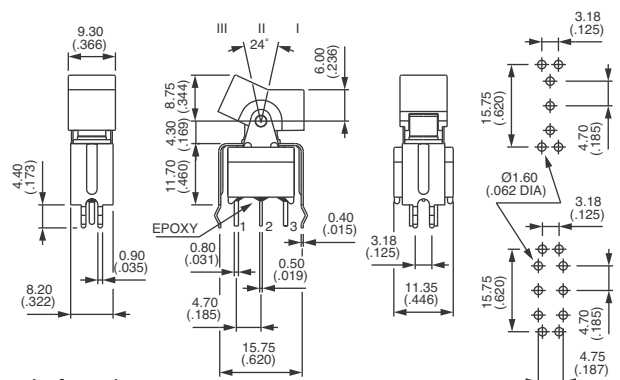
Bracket mounting



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

MODEL
STRUCTURE

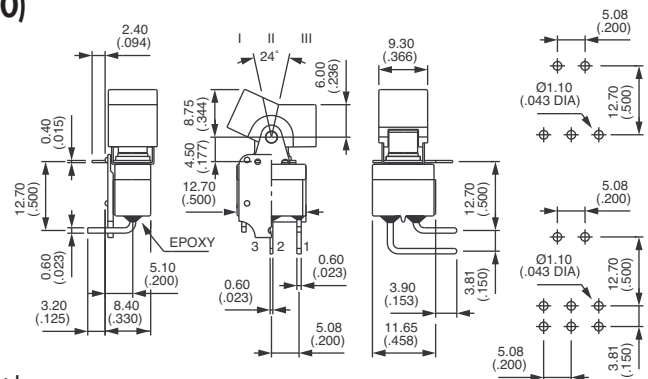
Right angle terminals - horizontal - spacing 5,08 (.200)



Single pole

Double pole

		III	II	I
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.

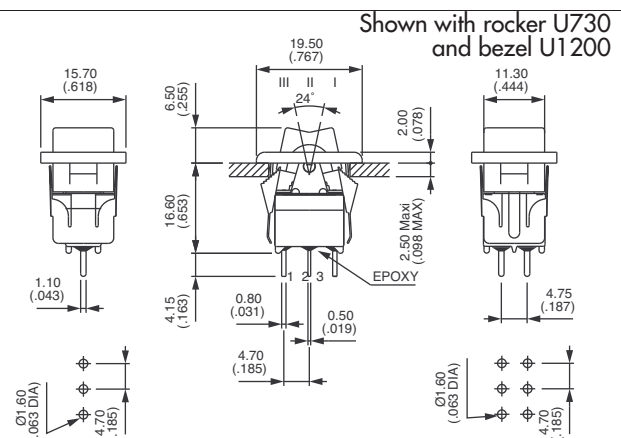
Straight PC terminals - snap-in mounting



Single pole

Double pole

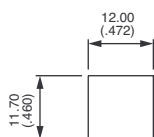
		III	II	I
SK236-6	SK246-6	ON	-	ON
SK239-6	SK249-6	ON	OFF	ON
SK237-6	SK247-6	MOM	OFF	MOM
SK238-6	SK248-6	ON	OFF	MOM
SK232-6	SK242-6	ON	-	MOM
	SK244TH-6*	ON	ON	ON



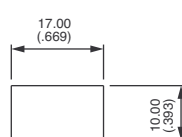
Shown with rocker U730 and bezel U1200

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

PANEL CUT-OUT

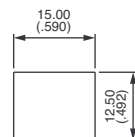


With rocker **U730**
or paddle **U700**



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

For SK only





S series

Washable rocker and paddle switches

CONTACT MATERIALS

A	Silver				
AD	Silver, gold plated				
CD	Brass, gold plated				

SPECIAL OPTIONS / INSULATED MODELS



X653 Vertical right angle with stand-off plate

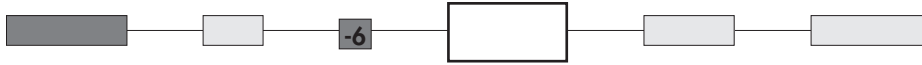
Shown with rocker U620

	III	II	I
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

* 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 : 0,5A 30VDC
Minimum quantity : 5.000 per type and shipment.

SPECIAL OPTIONS / INSULATED MODELS (continued)



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



Single pole

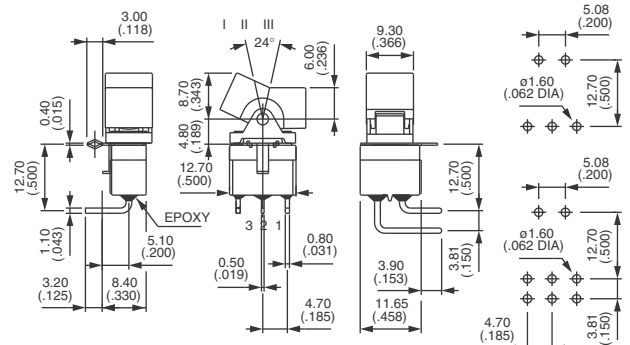
SW236-6 X1159
SW239-6 X1159
SW237-6 X1159
SW238-6 X1159
SW232-6 X1159

Double pole

SW246-6 X1159
SW249-6 X1159
SW247-6 X1159
SW248-6 X1159
SW242-6 X1159
SW244TH-6 X1159*

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

Shown with rocker U620



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



Single pole

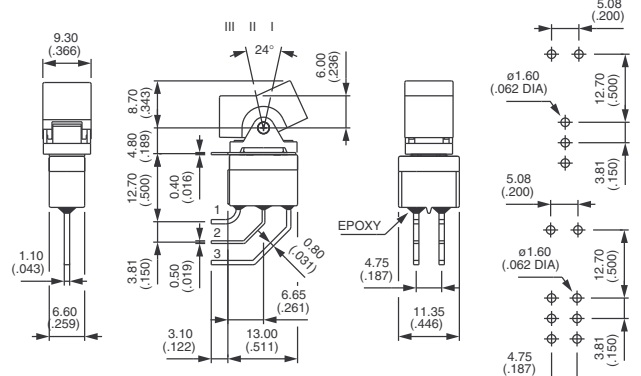
SWW236-6 X1159
SWW239-6 X1159
SWW237-6 X1159
SWW238-6 X1159
SWW232-6 X1159

Double pole

SWW246-6 X1159
SWW249-6 X1159
SWW247-6 X1159
SWW248-6 X1159**
SWW242-6 X1159**
SWW244TH-6 X1159*

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

Shown with rocker U620



X1159 Insulated model protected against E.S.D. up to 12 KV - Straight PC terminals - bracket mounting



Single pole

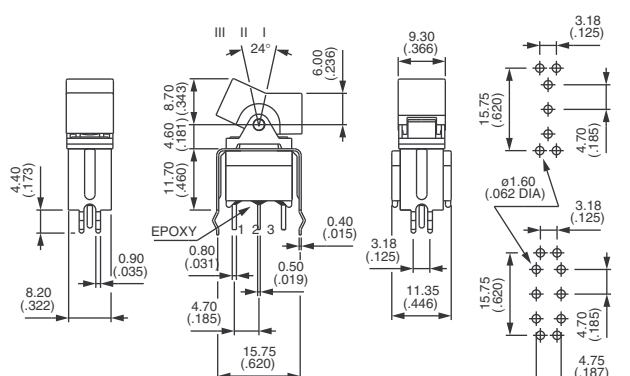
SY236-6 X1159
SY239-6 X1159
SY237-6 X1159
SY238-6 X1159
SY232-6 X1159

Double pole

SY246-6 X1159
SY249-6 X1159
SY247-6 X1159
SY248-6 X1159**
SY242-6 X1159**
SY244TH-6 X1159*

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

Shown with rocker U620



* Function 4 : SP in DP case - TH connection, see end of catalogue. ** Functions 2 and 8 : reversed connection available. Consult factory.

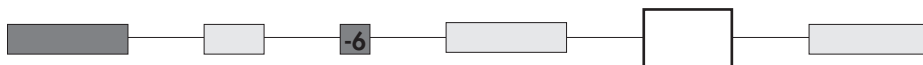
Above models available with all actuators shown on next page.



S series

Washable rocker and paddle switches

AGENCY APPROVAL

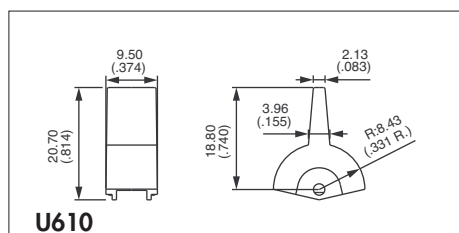
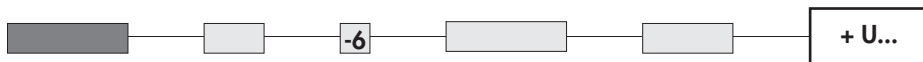


UL

Availability : consult factory for details of approved models.

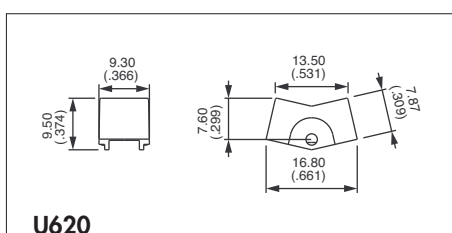
Marking : to order switches marked with the UL symbol, complete above box with "UL".
Blank : no agency approval required.

ACTUATORS



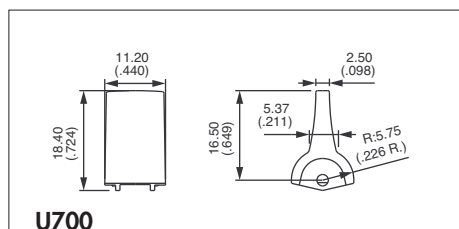
U610

Narrow paddle



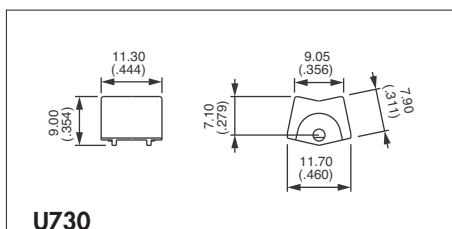
U620

Large rocker



U700

Broad paddle



U730

Small rocker

Actuator colours

Replace last "0" by number

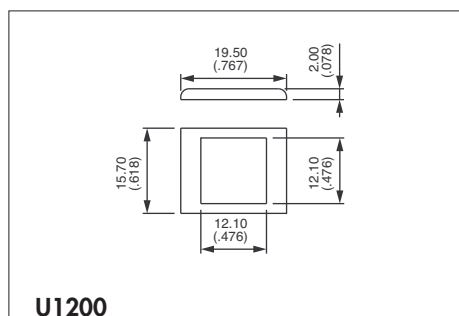
- | | |
|-----|-----------|
| 1 | blue |
| 1/4 | dark blue |
| 2 | black |
| 3 | green |
| 4 | grey |
| 5 | yellow |
| 6 | red |
| 7 | ivory |
| 7/1 | white |
| 9 | orange |



U610 and U620 not available on SK models

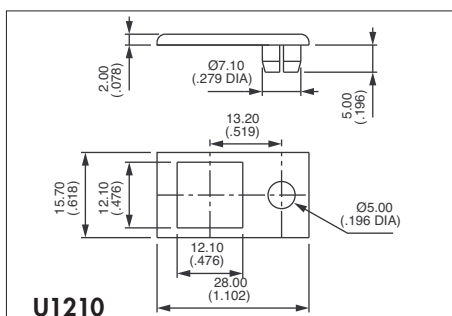
Bezels for SK model (snap-in)

Add bezel part number to actuator part number.



U1200

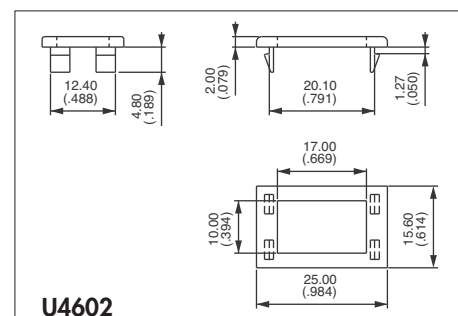
Bezel



U1210

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

Bezel for SW - SWW and SY models



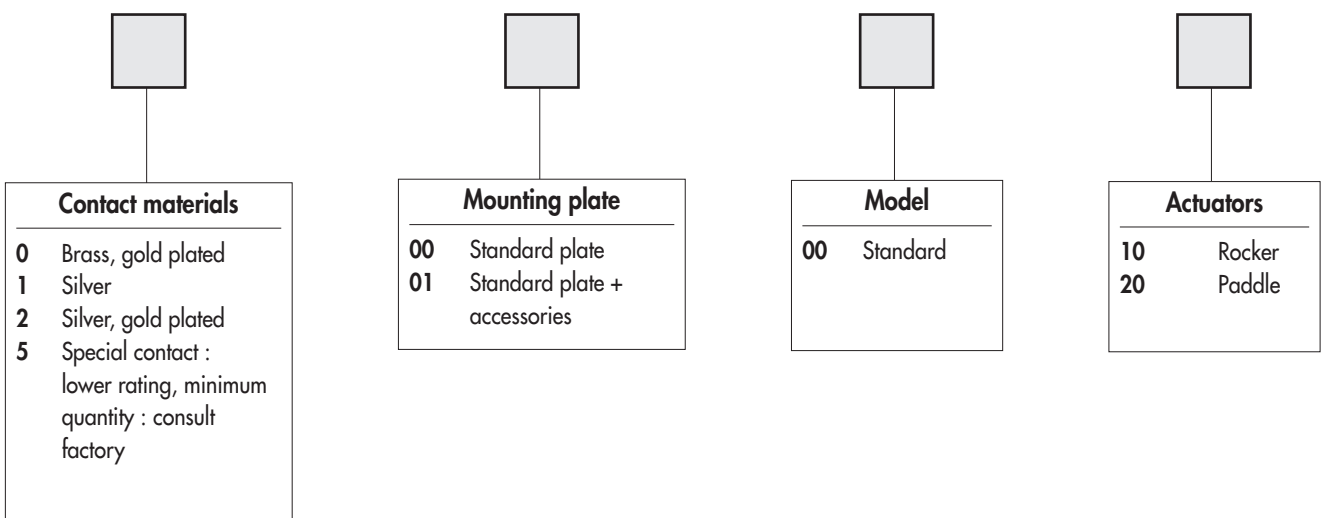
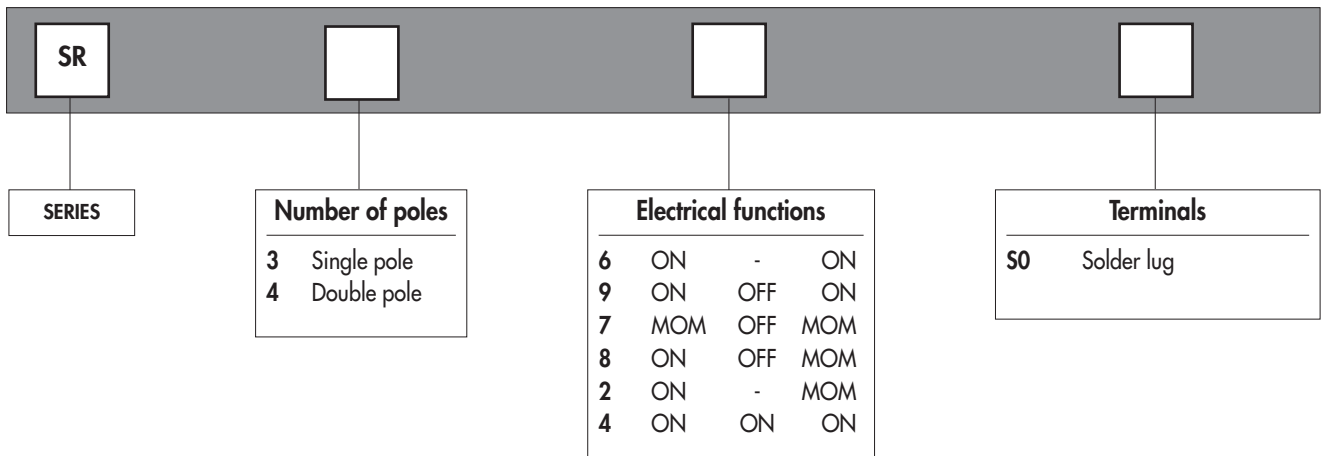
U4602

Black bezel - for rocker U620 only

SR series

Washable rocker and paddle switches

Overview



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 bracketed numbers.



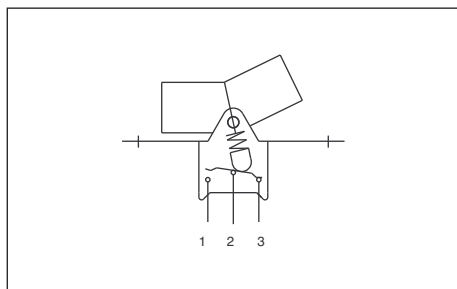
Packaging unit : 20 pieces.



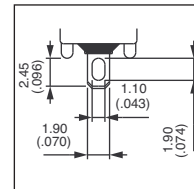
SR series

Washable rocker and paddle switches

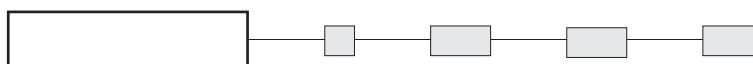
Solder lug terminals



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



MODEL
STRUCTURE



Shown with standard mounting plate (code 00)

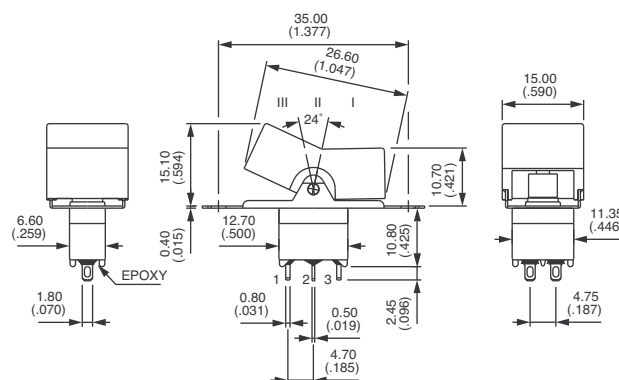
Solder lug terminals



Single pole Double pole

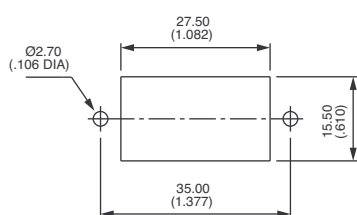
SR36S0	SR46S0
SR39S0	SR49S0
SR37S0	SR47S0
SR38S0	SR48S0
SR32S0	SR42S0
	SR44S0*

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



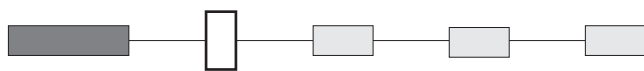
SR series

Washable rocker and paddle switches

OPTIONS

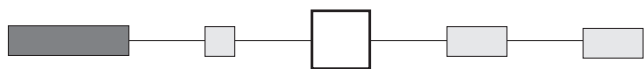


CONTACT MATERIALS

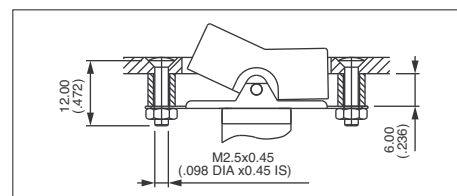


- 0 Brass, gold plated
- 1 Silver
- 2 Silver, gold plated
- 5 Special contact, lower rating, minimum quantity : consult factory.

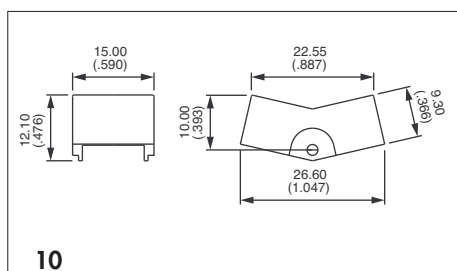
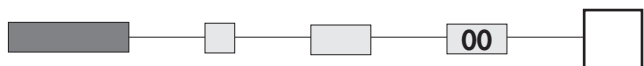
MOUNTING PLATE



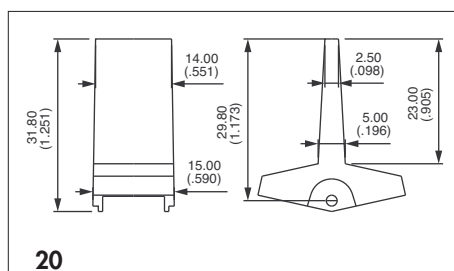
- 00 Standard mounting plate
- 01 Standard mounting plate + mounting accessories (spacers, screws and nuts)



ACTUATORS



Rocker



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