

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

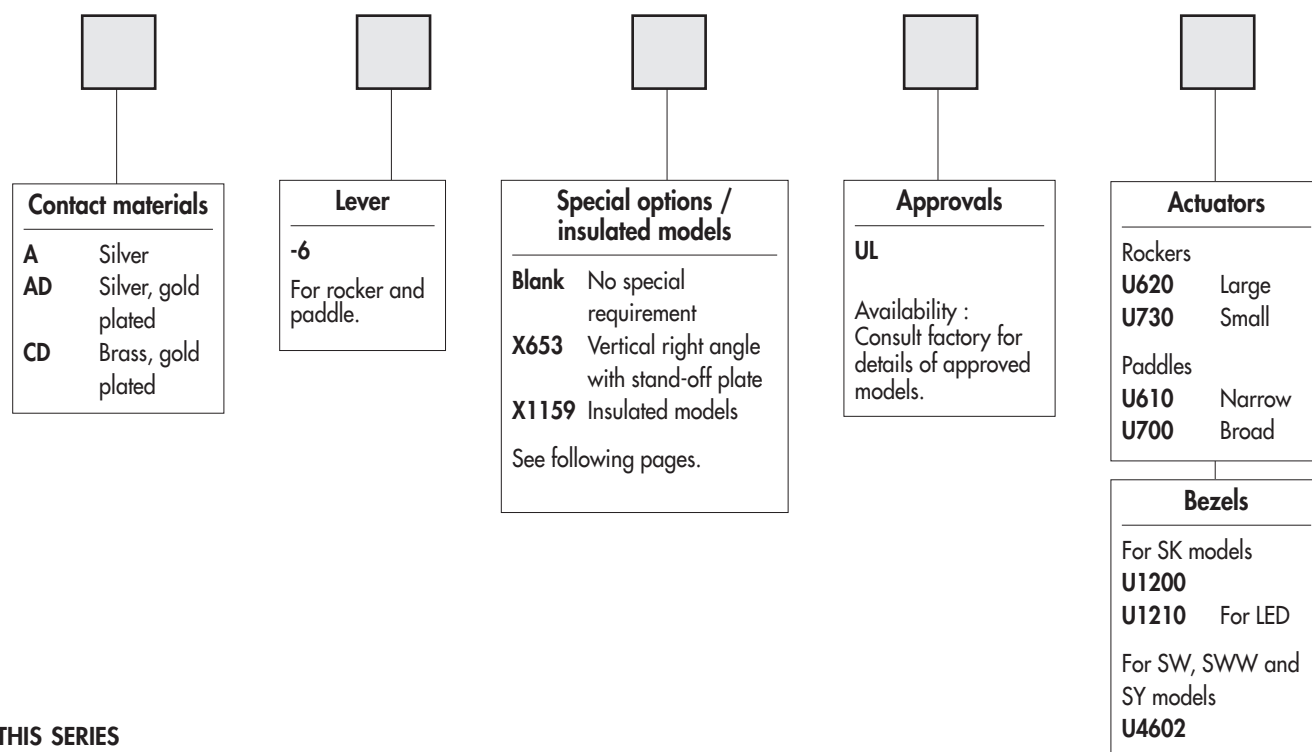
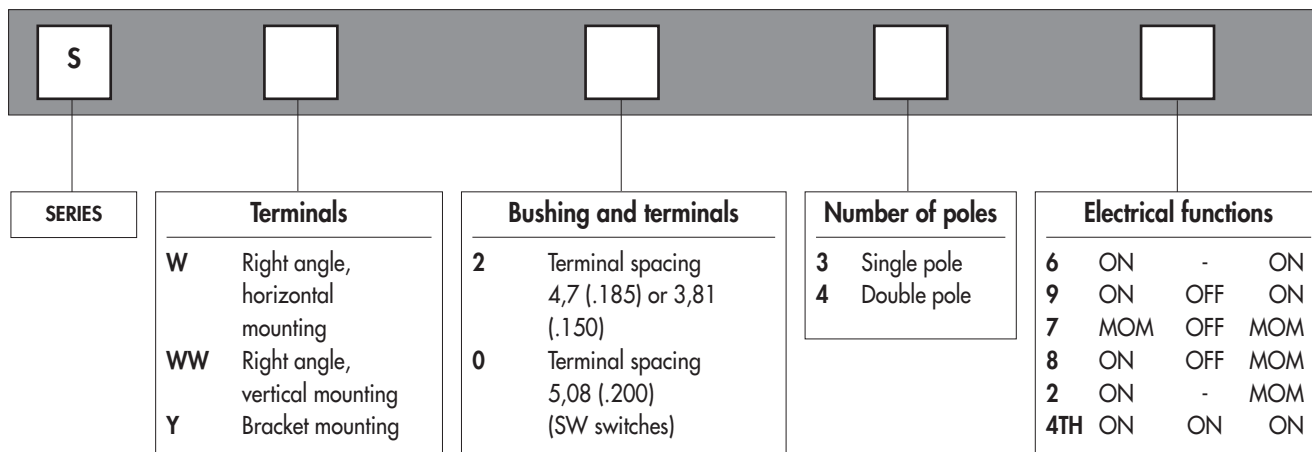
Availability : consult factory for details of approved models.

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.

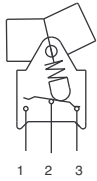


Packaging unit : 25 pieces to 50 pieces depending on models.

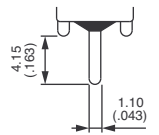
S series

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



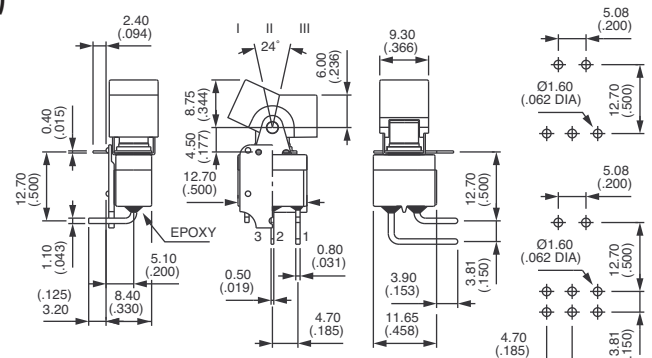
Shown with rocker U620

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



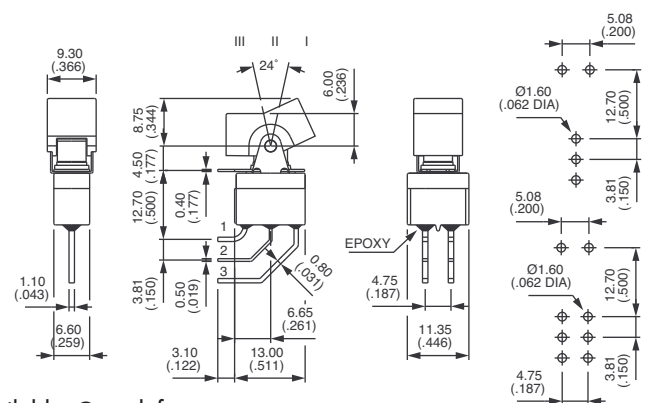
Single pole with stand-off plate, double pole without.

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



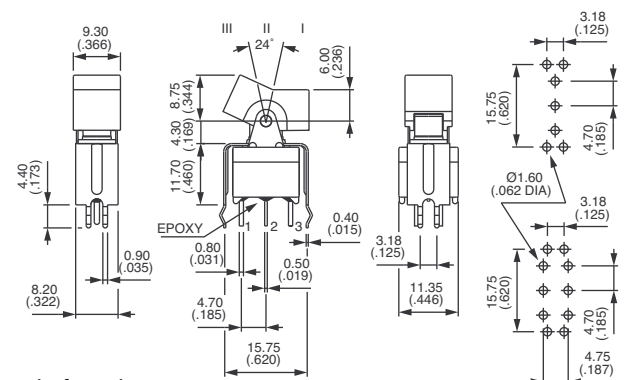
** Functions 2 and 8 : reversed connection available. Consult factory.

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

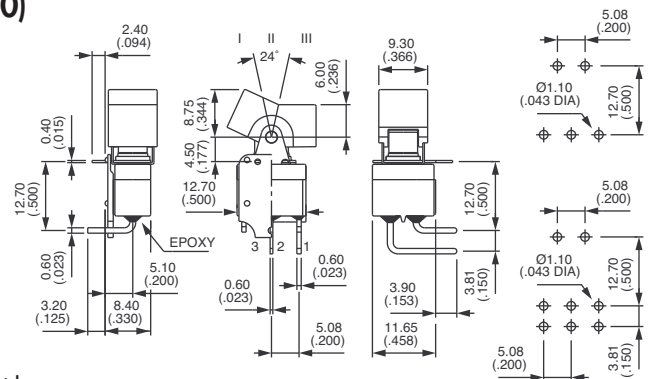
Right angle terminals - horizontal - spacing 5,08 (.200)



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.

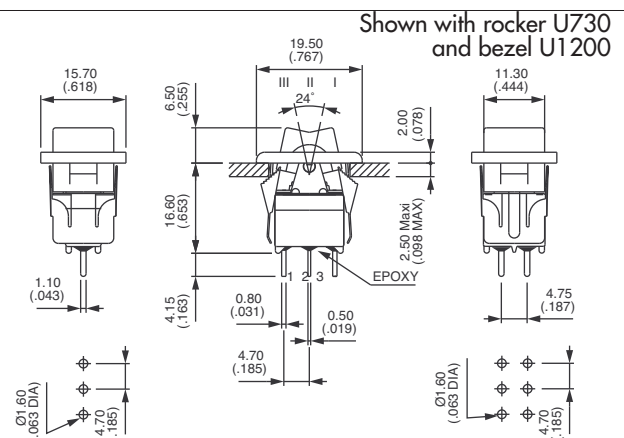
Straight PC terminals - snap-in mounting



Single pole

Double pole

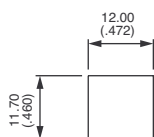
		III	II	I
SK236-6	SK246-6	ON	-	ON
SK239-6	SK249-6	ON	OFF	ON
SK237-6	SK247-6	MOM	OFF	MOM
SK238-6	SK248-6	ON	OFF	MOM
SK232-6	SK242-6	ON	-	MOM
	SK244TH-6*	ON	ON	ON



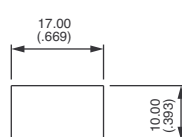
Shown with rocker U730 and bezel U1200

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

PANEL CUT-OUT

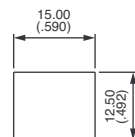


With rocker **U730**
or paddle **U700**



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

For SK only

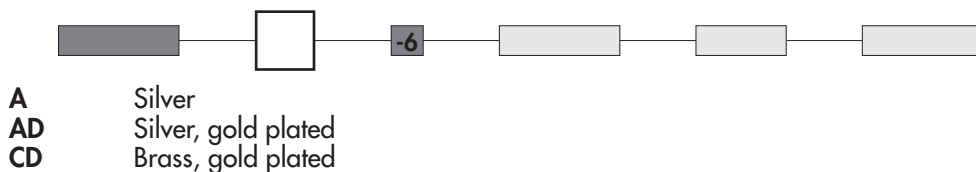




S series

Washable rocker and paddle switches

CONTACT MATERIALS



SPECIAL OPTIONS / INSULATED MODELS



X653 Vertical right angle with stand-off plate

Shown with rocker U620

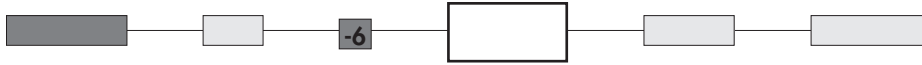
	III	II	I
Single pole			
SWW236-6 X653	ON	-	ON
SWW239-6 X653	ON	OFF	ON
SWW237-6 X653	MOM	OFF	MOM
SWW238-6 X653	ON	OFF	MOM
SWW232-6 X653	ON	-	MOM
Double pole			
SWW246-6 X653	ON	-	ON
SWW249-6 X653	ON	OFF	ON
SWW247-6 X653	MOM	OFF	MOM
SWW248-6 X653**	ON	OFF	MOM
SWW242-6 X653**	ON	-	MOM
SWW244TH-6 X653*	ON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

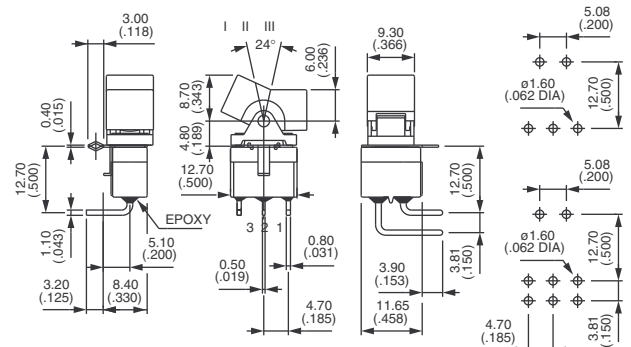
SW236-6 X1159
SW239-6 X1159
SW237-6 X1159
SW238-6 X1159
SW232-6 X1159

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	OFF	ON
ON	OFF	ON	ON
MOM	OFF	MOM	MOM
ON	OFF	MOM	MOM
ON	OFF	MOM	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

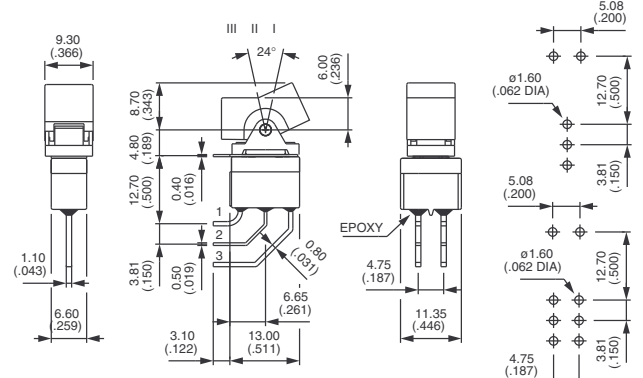
SWW236-6 X1159
SWW239-6 X1159
SWW237-6 X1159
SWW238-6 X1159
SWW232-6 X1159

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	OFF	ON
ON	OFF	ON	ON
MOM	OFF	MOM	MOM
ON	OFF	MOM	MOM
ON	OFF	MOM	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

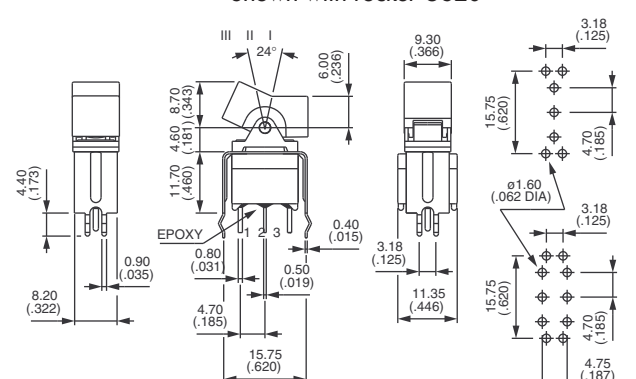
SY236-6 X1159
SY239-6 X1159
SY237-6 X1159
SY238-6 X1159
SY232-6 X1159

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	OFF	ON
ON	OFF	ON	ON
MOM	OFF	MOM	MOM
ON	OFF	MOM	MOM
ON	OFF	MOM	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.

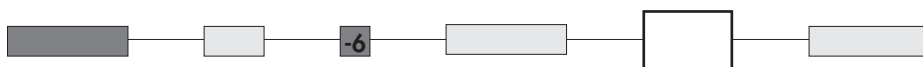
Above models available with all actuators shown on next page.



S series

Washable rocker and paddle switches

AGENCY APPROVAL

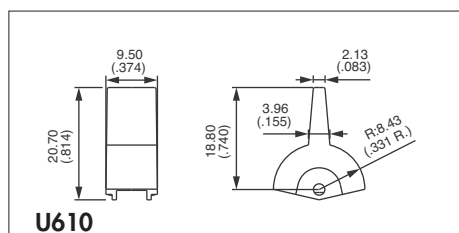
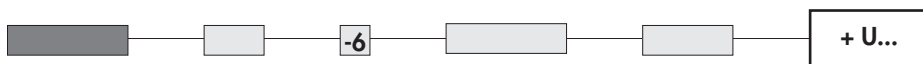


UL

Availability : consult factory for details of approved models.

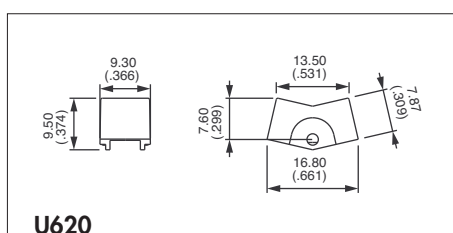
Marking : to order switches marked with the UL symbol, complete above box with "UL".
Blank : no agency approval required.

ACTUATORS



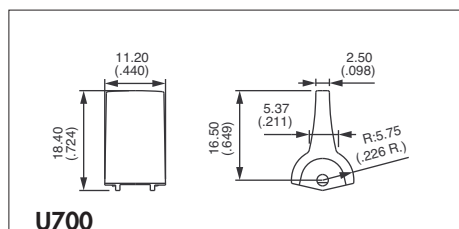
U610

Narrow paddle



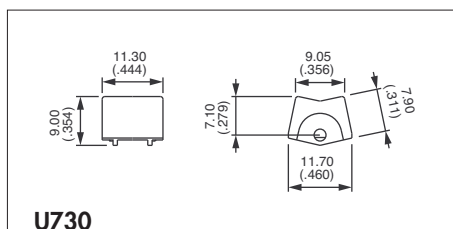
U620

Large rocker



U700

Broad paddle



U730

Small rocker

Actuator colours

Replace last "0" by number

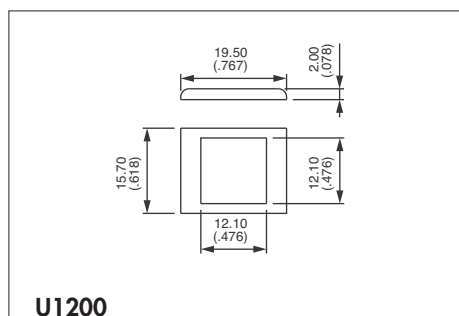
- 1 blue
- 1/4 dark blue
- 2 black
- 3 green
- 4 grey
- 5 yellow
- 6 red
- 7 ivory
- 7/1 white
- 9 orange



U610 and U620 not available on SK models

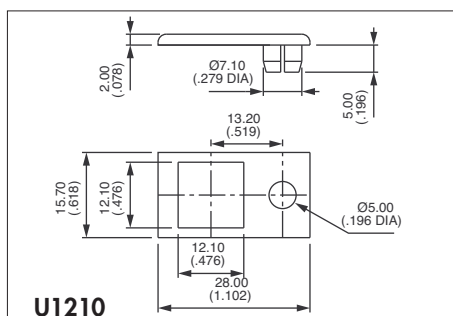
Bezels for SK model (snap-in)

Add bezel part number to actuator part number.



U1200

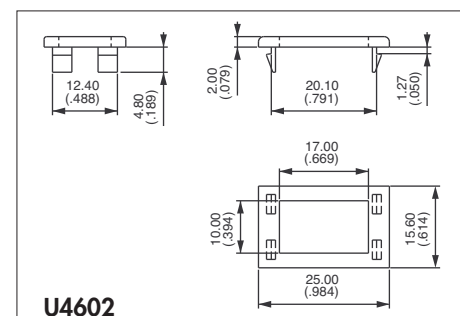
Bezel



U1210

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

Bezel for SW - SWW and SY models



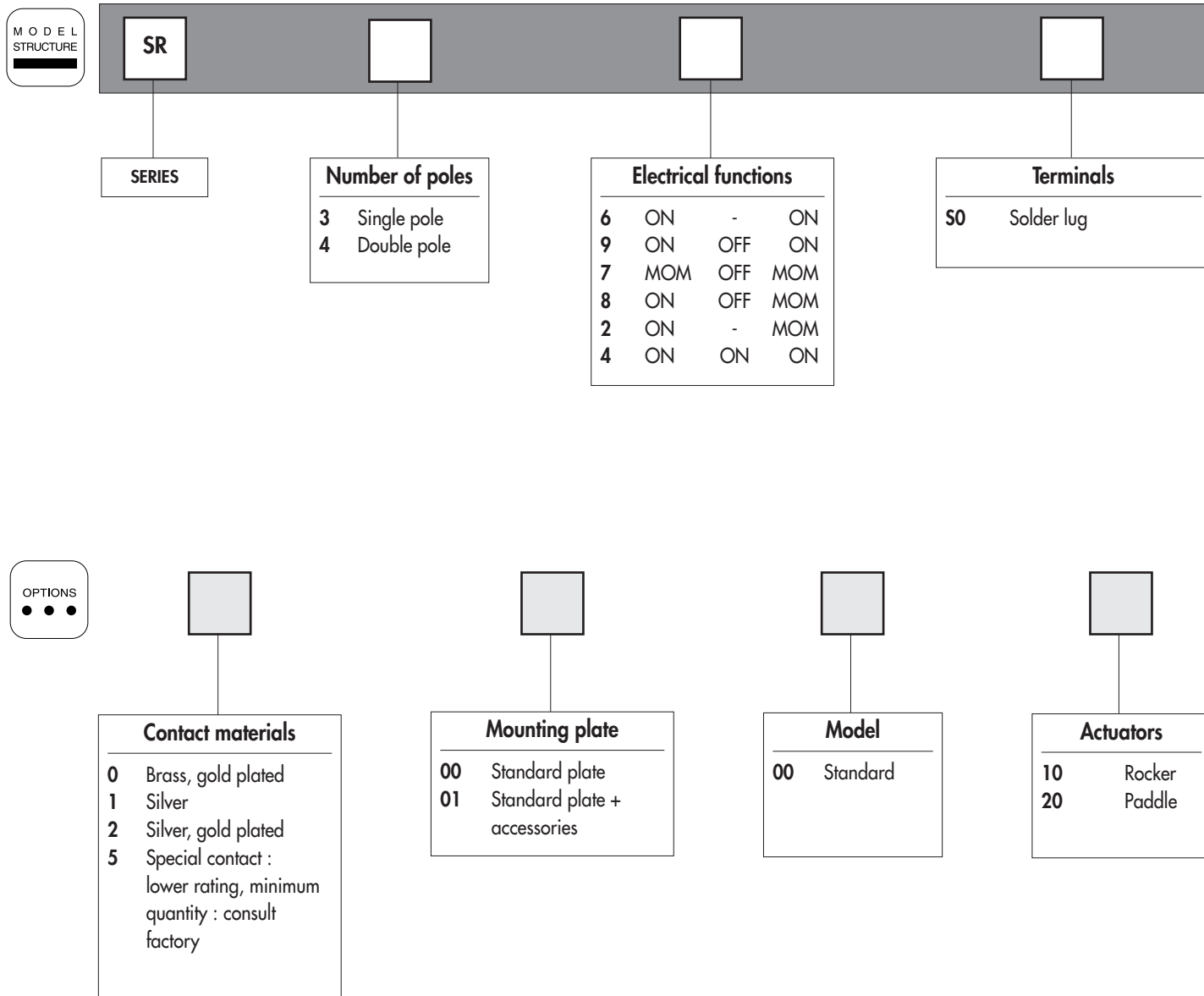
U4602

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.



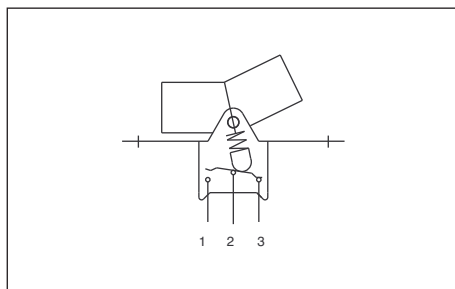
Packaging unit : 20 pieces.



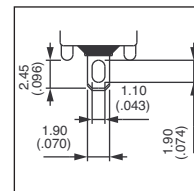
SR series

Washable rocker and paddle switches

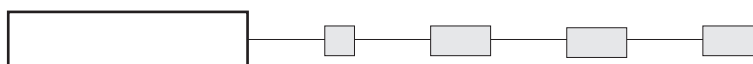
Solder lug terminals



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



MODEL
STRUCTURE



Shown with standard mounting plate (code 00)

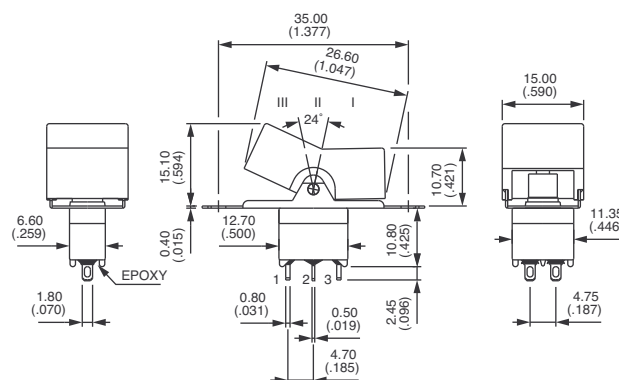
Solder lug terminals



Single pole Double pole

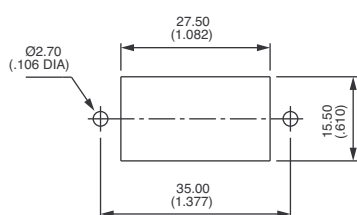
SR36S0	SR46S0
SR39S0	SR49S0
SR37S0	SR47S0
SR38S0	SR48S0
SR32S0	SR42S0
	SR44S0*

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



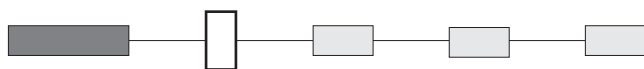
SR series

Washable rocker and paddle switches

OPTIONS



CONTACT MATERIALS

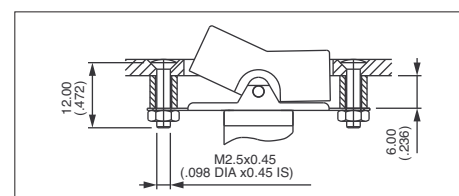


- 0 Brass, gold plated
- 1 Silver
- 2 Silver, gold plated
- 5 Special contact, lower rating, minimum quantity : consult factory.

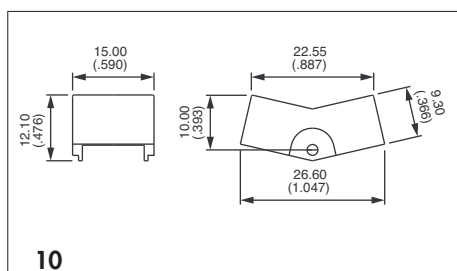
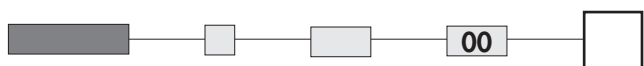
MOUNTING PLATE



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

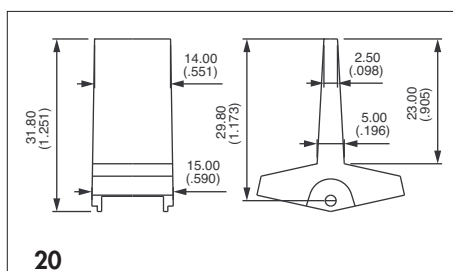


ACTUATORS



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