

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

S				
SERIES	Terminals	Bushing and terminals	Number of poles	Electrical functions
W	Right angle, horizontal mounting	2 Terminal spacing 4,7 (.185) or 3,81 (.150)	3 Single pole	6 ON - ON
WW	Right angle, vertical mounting	0 Terminal spacing 5,08 (.200) (SW switches)	4 Double pole	9 ON OFF ON
Y	Bracket mounting			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	-6	Blank No special requirement	UL	Rockers
AD Silver, gold plated	For rocker and paddle.	X653 Vertical right angle with stand-off plate	Availability : Consult factory for details of approved models.	U620 Large
CD Brass, gold plated		X1159 Insulated models		U730 Small
		See following pages.		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 bracketted numbers.



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

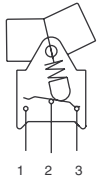


Packaging unit : 25 pieces to 50 pieces depending on models.

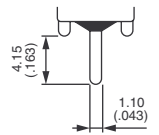
S series

Washable rocker and paddle switches

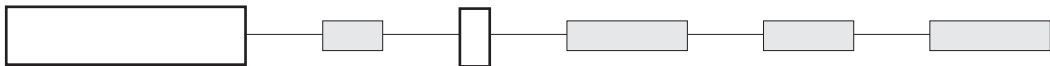
MODEL
STRUCTURE



- 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



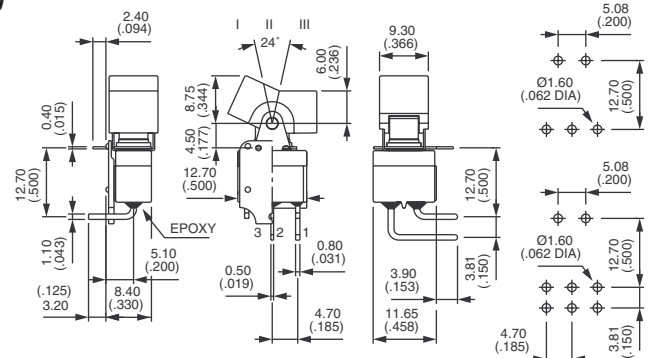
Shown with rocker U620

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



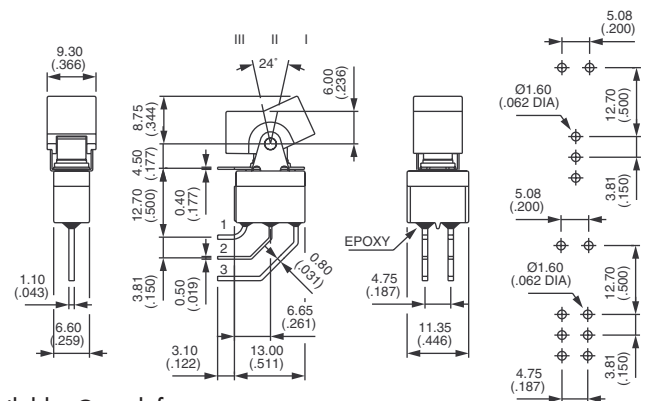
Single pole with stand-off plate, double pole without.

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



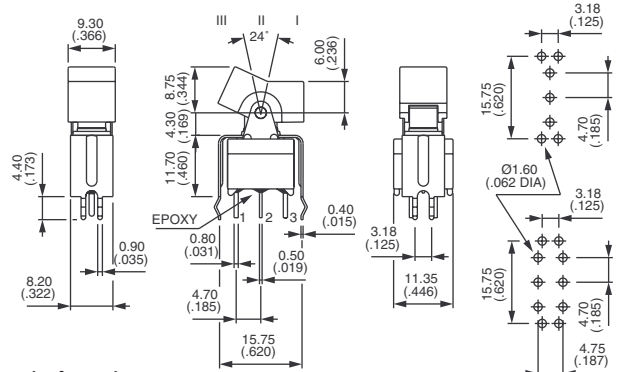
** Functions 2 and 8 : reversed connection available. Consult factory.

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

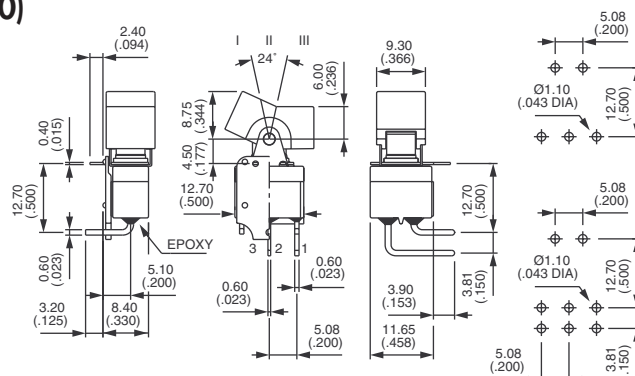


* Function 4 : SP in DP case - TH connection, see end of catalogue.

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

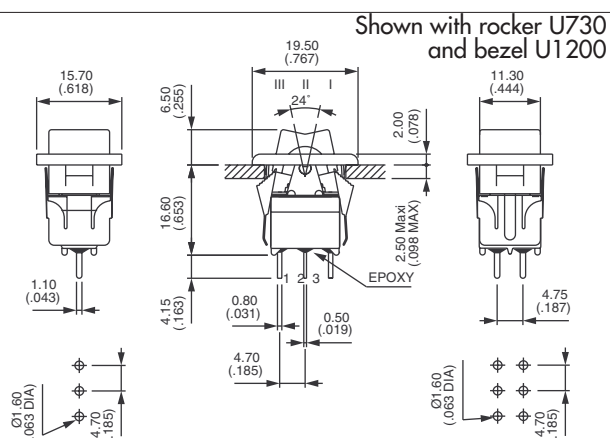


Single pole with stand-off plate, double pole without.

Straight PC terminals - snap-in mounting

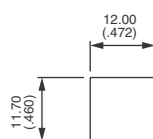


		III	II	I
Single pole	Double pole			
SK236-6	SK246-6	ON	-	ON
SK239-6	SK249-6	ON	OFF	ON
SK237-6	SK247-6	MOM	OFF	MOM
SK238-6	SK248-6	ON	OFF	MOM
SK232-6	SK242-6	ON	-	MOM
	SK244TH-6*	ON	ON	ON

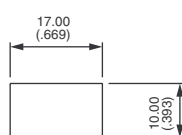


* Function 4 : SP in DP case - TH connection, see end of catalogue.

PANEL CUT-OUT

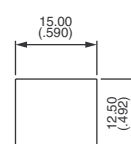


With rocker **U730**
or paddle **U700**



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

For SK only

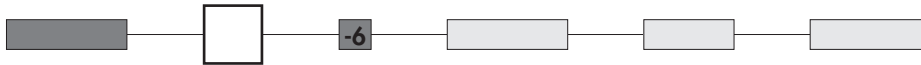


S series

Washable rocker and paddle switches

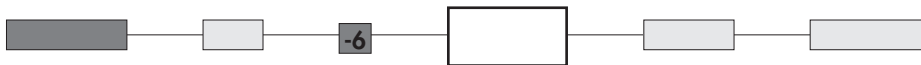
OPTIONS
● ● ●

CONTACT MATERIALS



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

SPECIAL OPTIONS / INSULATED MODELS



X653 Vertical right angle with stand-off plate

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

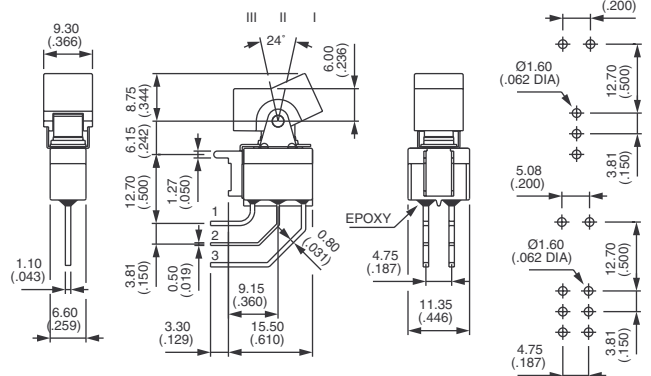
Double pole

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.



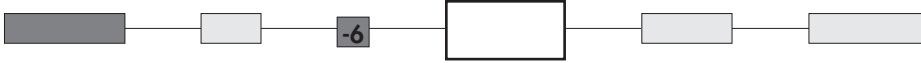
X601 Silver plated brass contacts
Current/voltage rating for an electrical life of 20.000 cycles :
0,2A 250VAC - 0,4A 125VAC - 0,5A 30VDC
Minimum quantity : 5.000 per type and shipment.

F Tin plated terminals. Consult on availability.

S series

Washable rocker and paddle switches

SPECIAL OPTIONS / INSULATED MODELS (continued)



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



Single pole

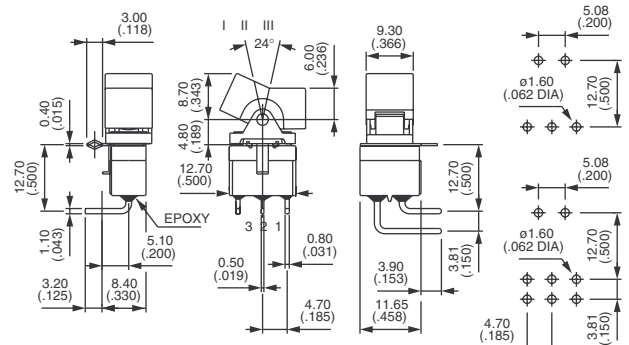
SW236-6 X1159
SW239-6 X1159
SW237-6 X1159
SW238-6 X1159
SW232-6 X1159

Double pole

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

	III	II	I
SW236-6 X1159	ON	-	ON
SW239-6 X1159	ON	OFF	ON
SW237-6 X1159	MOM	OFF	MOM
SW238-6 X1159	ON	OFF	MOM
SW232-6 X1159	ON	-	MOM
SW246-6 X1159	ON	-	ON
SW249-6 X1159	ON	OFF	ON
SW247-6 X1159	MOM	OFF	MOM
SW248-6 X1159	ON	OFF	MOM
SW242-6 X1159	ON	-	MOM
SW244TH-6 X1159*	ON	ON	ON

Shown with rocker U620



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



Single pole

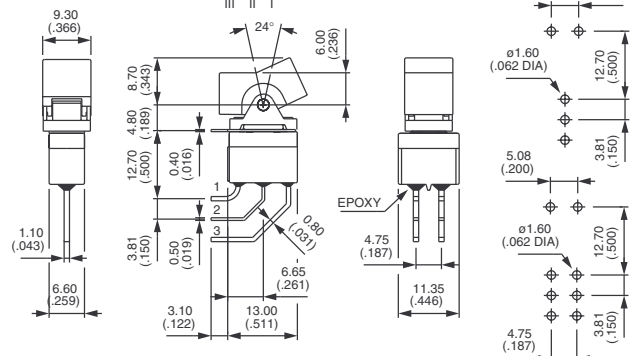
SWW236-6 X1159
SWW239-6 X1159
SWW237-6 X1159
SWW238-6 X1159
SWW232-6 X1159

Double pole

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

	III	II	I
SWW236-6 X1159	ON	-	ON
SWW239-6 X1159	ON	OFF	ON
SWW237-6 X1159	MOM	OFF	MOM
SWW238-6 X1159	ON	OFF	MOM
SWW232-6 X1159	ON	-	MOM
SWW246-6 X1159	ON	-	ON
SWW249-6 X1159	ON	OFF	ON
SWW247-6 X1159	MOM	OFF	MOM
SWW248-6 X1159**	ON	OFF	MOM
SWW242-6 X1159**	ON	-	MOM
SWW244TH-6 X1159*	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

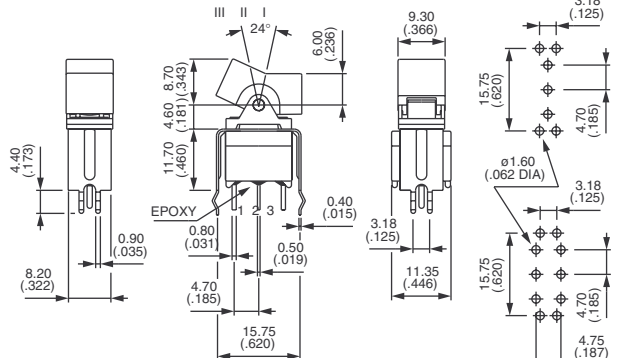
SY236-6 X1159
SY239-6 X1159
SY237-6 X1159
SY238-6 X1159
SY232-6 X1159

Double pole

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

	III	II	I
SY236-6 X1159	ON	-	ON
SY239-6 X1159	ON	OFF	ON
SY237-6 X1159	MOM	OFF	MOM
SY238-6 X1159	ON	OFF	MOM
SY232-6 X1159	ON	-	MOM
SY246-6 X1159	ON	-	ON
SY249-6 X1159	ON	OFF	ON
SY247-6 X1159	MOM	OFF	MOM
SY248-6 X1159**	ON	OFF	MOM
SY242-6 X1159**	ON	-	MOM
SY244TH-6 X1159*	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.

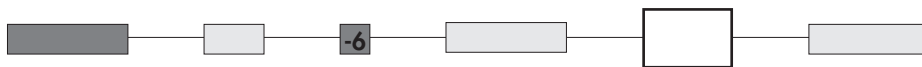
S series

Washable rocker and paddle switches

OPTIONS



AGENCY APPROVAL

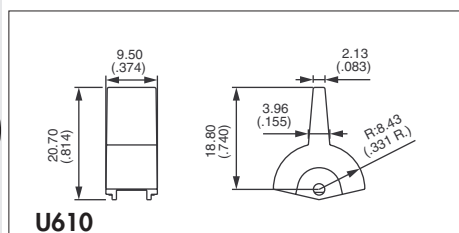
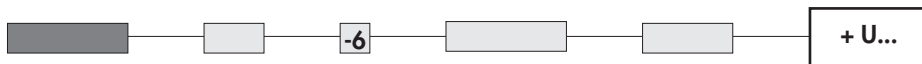


UL

Availability : consult factory for details of approved models.

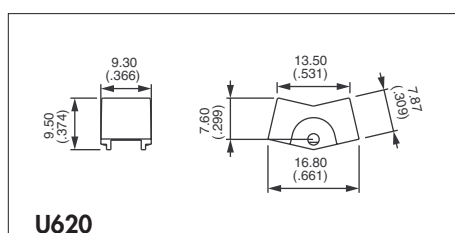
Marking : to order switches marked with the UL symbol, complete above box with "UL".
Blank : no agency approval required.

ACTUATORS



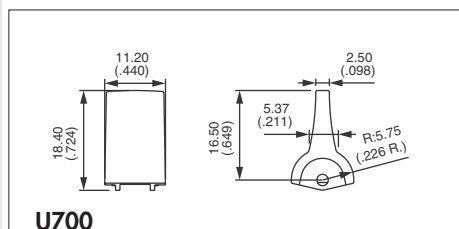
U610

Narrow paddle



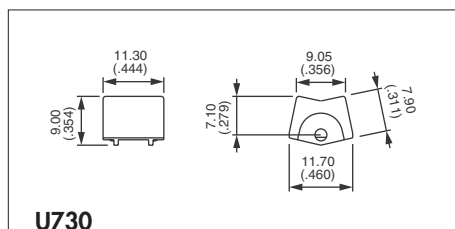
U620

Large rocker



U700

Broad paddle



U730

Small rocker

Actuator colours

Replace last "0" by number

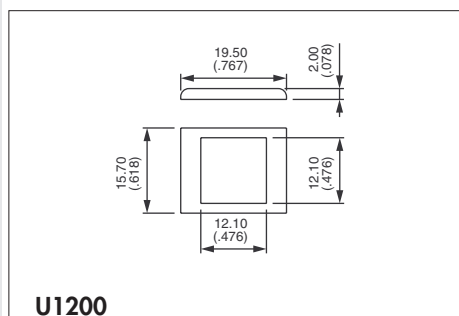
- | | |
|-----|-----------|
| 1 | blue |
| 1/4 | dark blue |
| 2 | black |
| 3 | green |
| 4 | grey |
| 5 | yellow |
| 6 | red |
| 7 | ivory |
| 7/1 | white |
| 9 | orange |



U610 and U620 not available on SK models

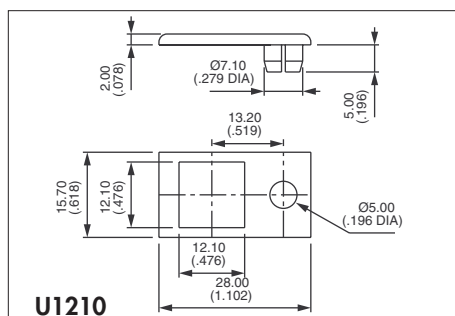
Bezels for SK model (snap-in)

Add bezel part number to actuator part number.



U1200

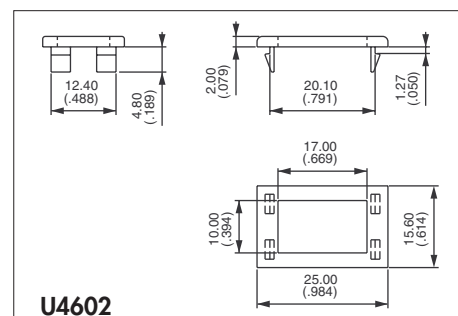
Bezel



U1210

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

Bezel for SW - SWW and SY models



U4602

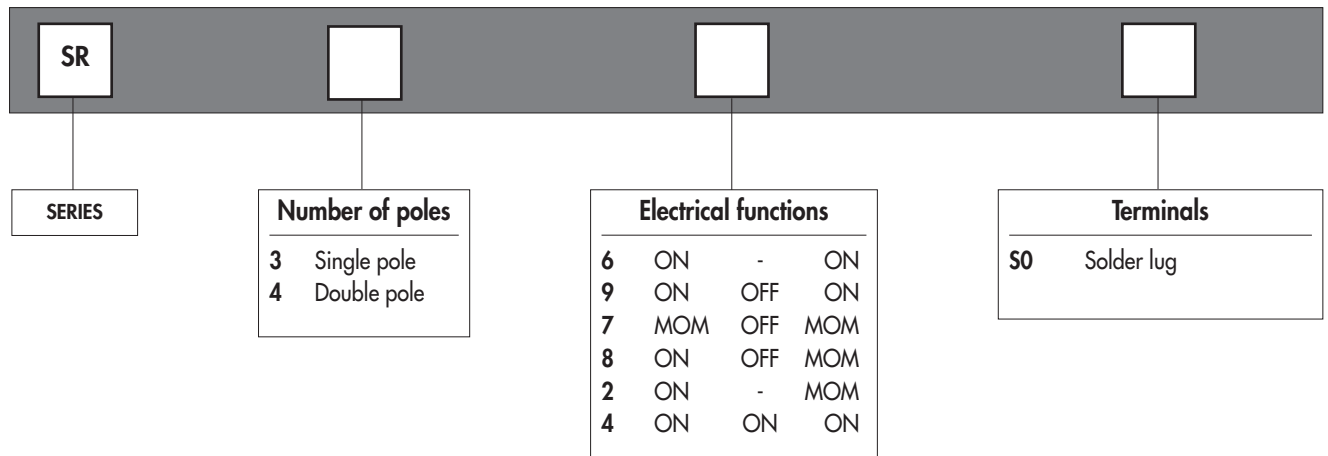
Black bezel - for rocker U620 only

SR series

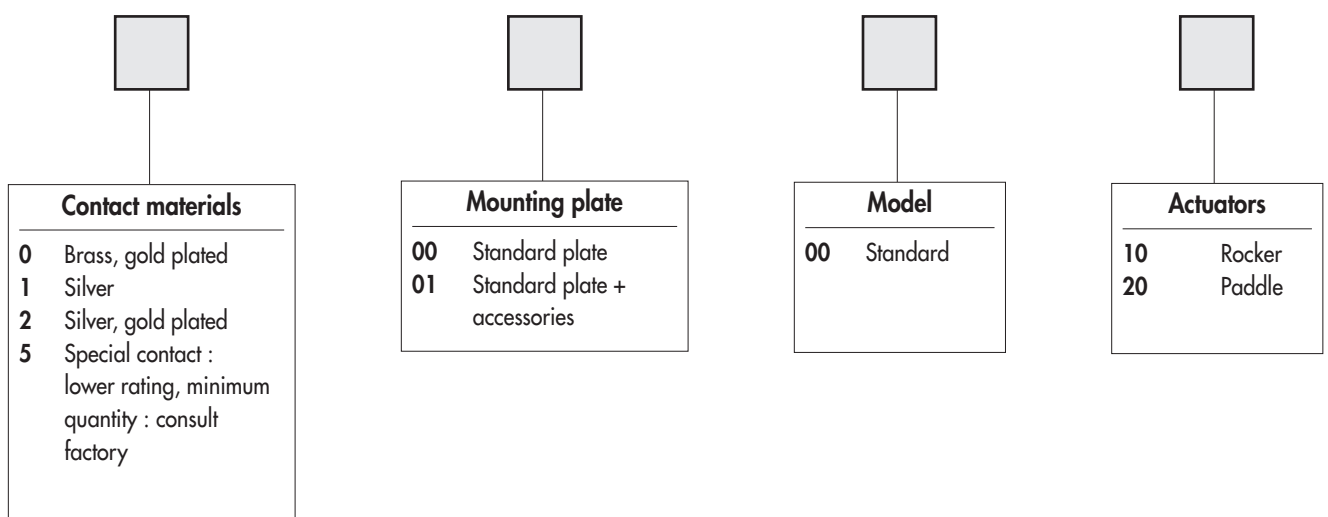
Washable rocker and paddle switches

Overview

MODEL STRUCTURE



OPTIONS



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.



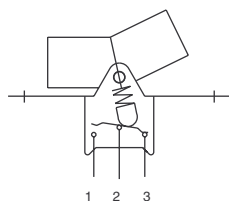
Packaging unit : 20 pieces.

SR series

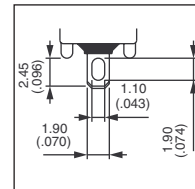
Washable rocker and paddle switches

Solder lug terminals

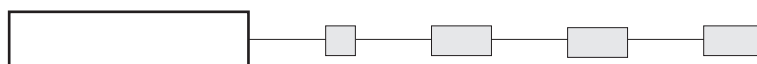
MODEL
STRUCTURE



- 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

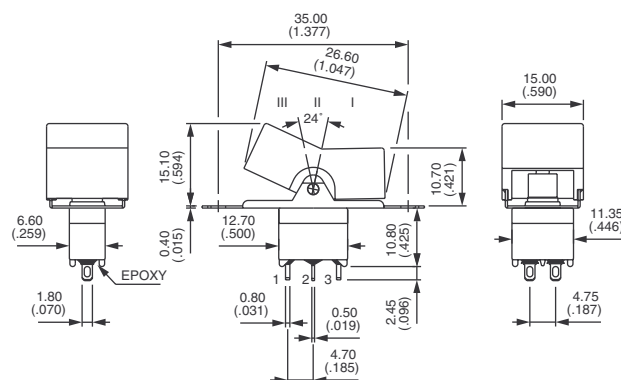


Single pole Double pole

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

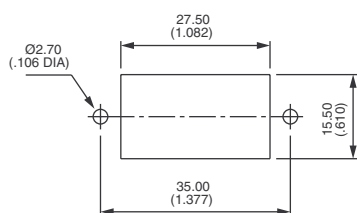
III II I

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

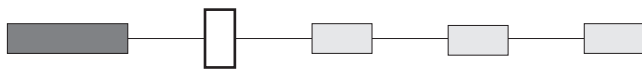




SR series

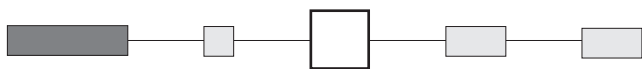
Washable rocker and paddle switches

CONTACT MATERIALS

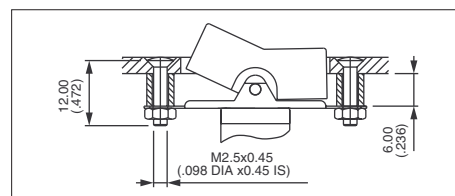


- 0 Brass, gold plated
- 1 Silver
- 2 Silver, gold plated
- 5 Special contact, lower rating, minimum quantity : consult factory.

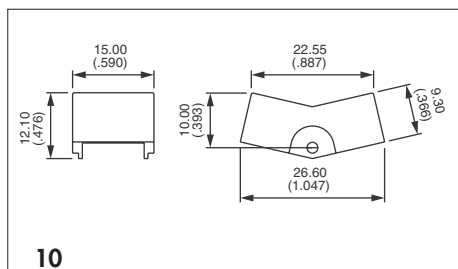
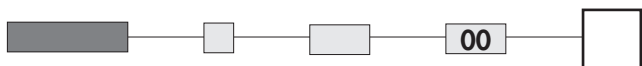
MOUNTING PLATE



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

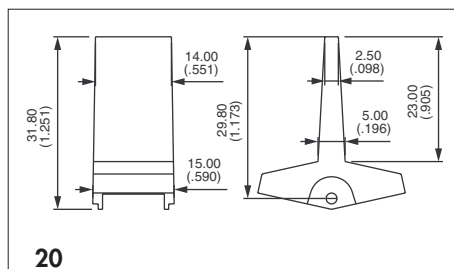


ACTUATORS



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