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.

D

The company reserves the right to change specifications without notice.

S series

Washable rocker and paddle switches

Overview

MODEL STRUCTURE

S [ ] [ ] [ ] [ ] [ ]

SERIES

Terminals

W	Right angle, horizontal mounting
WW	Right angle, vertical mounting
Y	Bracket mounting

Bushing and terminals

2	Terminal spacing 4,7 (.185) or 3,81 (.150)
0	Terminal spacing 5,08 (.200) (SW switches)

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
4TH	ON	ON	ON

OPTIONS

[ ] [ ] [ ] [ ] [ ]

Contact materials

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

Lever

-6

For rocker and paddle.

Special options / insulated models

Blank	No special requirement
X653	Vertical right angle with stand-off plate
X1159	Insulated models

See following pages.

Approvals

UL

Availability : Consult factory for details of approved models.

Actuators

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.

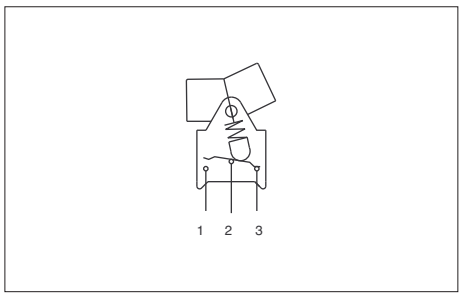
NOTICE : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

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

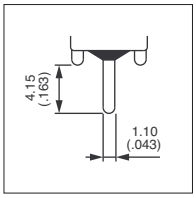
S series

Washable rocker and paddle switches

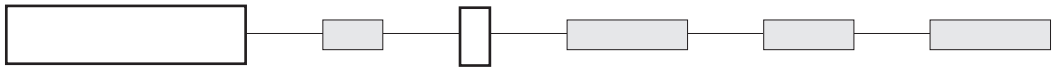
MODEL STRUCTURE



- 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



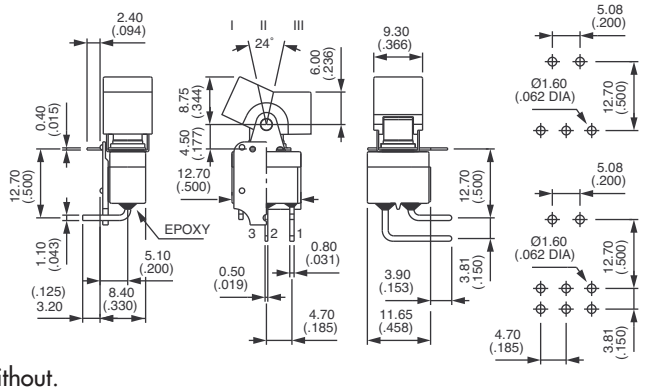
MODEL STRUCTURE



Shown with rocker U620

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

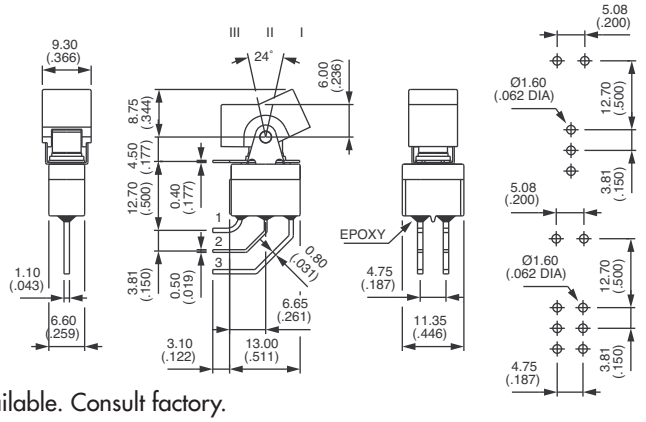
Single pole	Double pole	III	II	I
SW236-6	**SW246-6**	ON	-	ON
SW239-6	**SW249-6**	ON	OFF	ON
SW237-6	**SW247-6**	MOM	OFF	MOM
SW238-6	**SW248-6**	ON	OFF	MOM
SW232-6	**SW242-6**	ON	-	MOM
	SW244TH-6*	ON	ON	ON



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

Right angle terminals - vertical

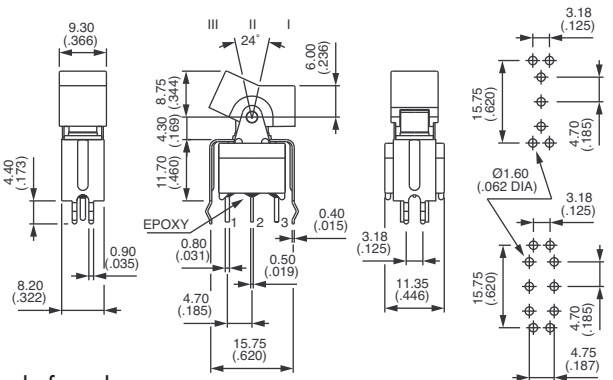
Single pole	Double pole	III	II	I
SWW236-6	**SWW246-6**	ON	-	ON
SWW239-6	**SWW249-6**	ON	OFF	ON
SWW237-6	**SWW247-6**	MOM	OFF	MOM
SWW238-6	**SWW248-6****	ON	OFF	MOM
SWW232-6	**SWW242-6****	ON	-	MOM
	SWW244TH-6*	ON	ON	ON



** 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

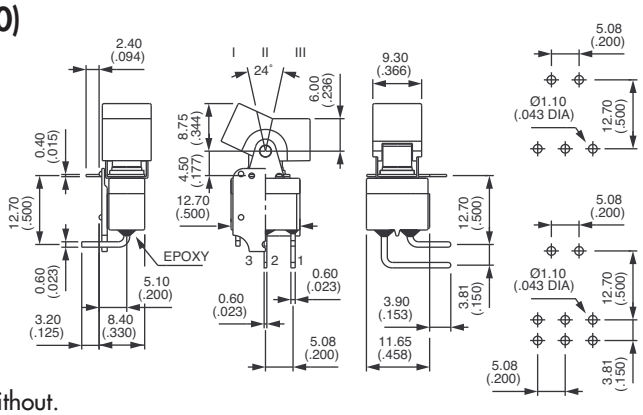
Washable rocker and paddle switches

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

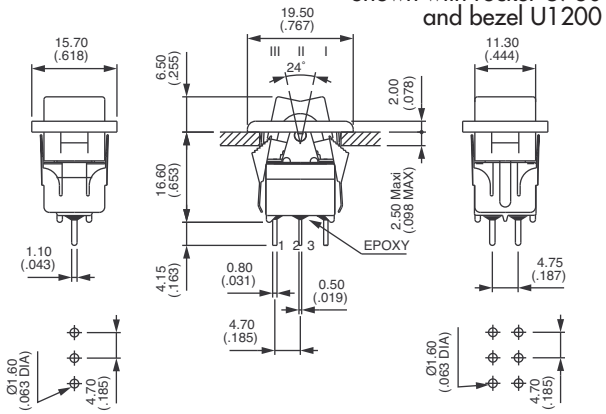
Single pole with stand-off plate, double pole without.



Straight PC terminals - snap-in mounting

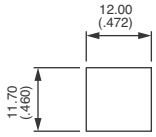
Shown with rocker U730 and bezel U1200

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

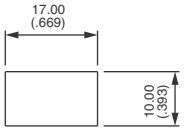


* Function 4 : SP in DP case - TH connection, see end of catalogue.

PANEL CUT-OUT

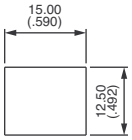


With rocker **U730** or paddle **U700**

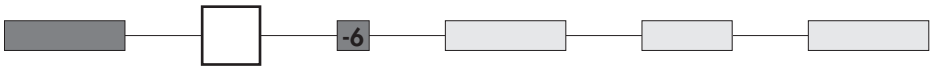


With rocker **U620** or paddle **U610**

For SK only

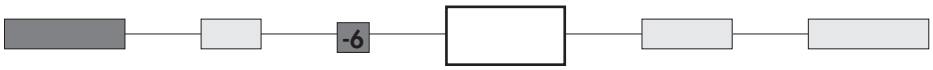


CONTACT MATERIALS



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

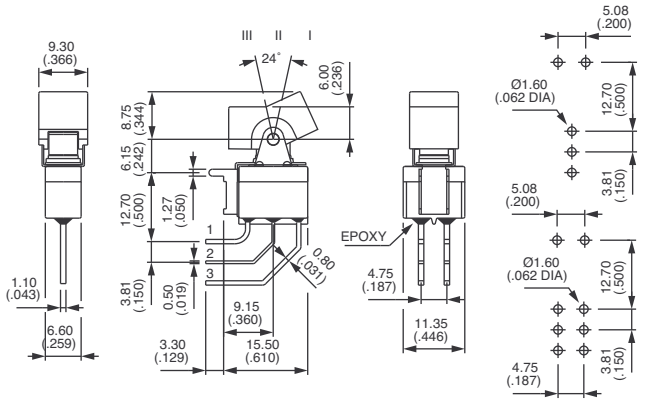
SPECIAL OPTIONS / INSULATED MODELS



X653 Vertical right angle **with stand-off plate**

Shown with rocker U620

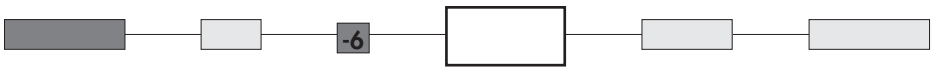
	III	II	I
Single pole			
SWW236-6 X653	ON	-	ON
SWW239-6 X653	ON	OFF	ON
SWW237-6 X653	MOM	OFF	MOM
SWW238-6 X653	ON	OFF	MOM
SWW232-6 X653	ON	-	MOM
Double pole			
SWW246-6 X653	ON	-	ON
SWW249-6 X653	ON	OFF	ON
SWW247-6 X653	MOM	OFF	MOM
SWW248-6 X653**	ON	OFF	MOM
SWW242-6 X653**	ON	-	MOM
SWW244TH-6 X653*	ON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

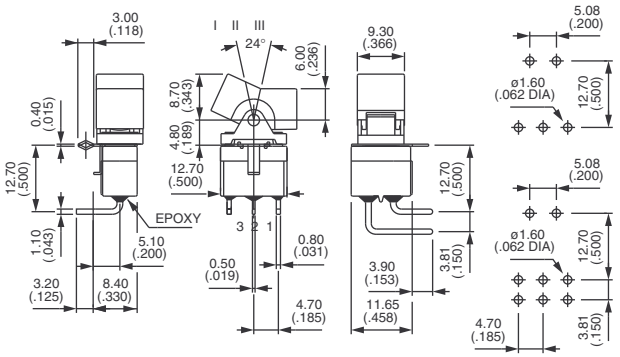
SPECIAL OPTIONS / INSULATED MODELS (continued)



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

	III	II	I
Single pole			
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
Double pole			
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

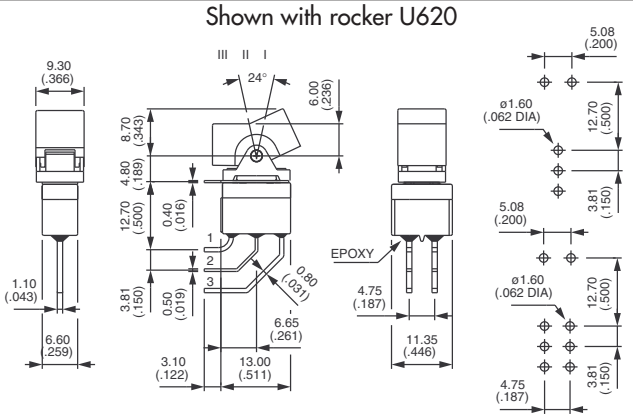
Shown with rocker U620



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

	III	II	I
Single pole			
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
Double pole			
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

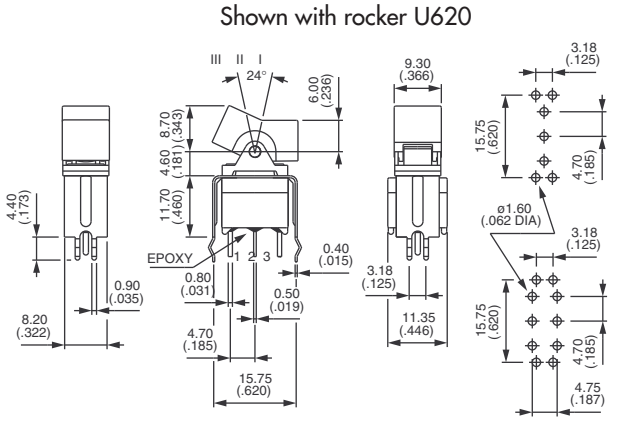
Shown with rocker U620



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

	III	II	I
Single pole			
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
Double pole			
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

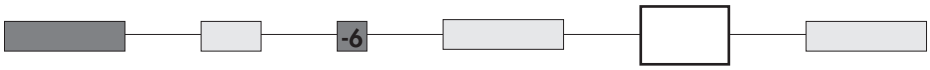
Shown with rocker U620



* 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.

AGENCY APPROVAL

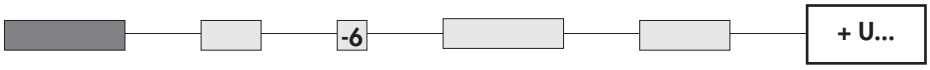


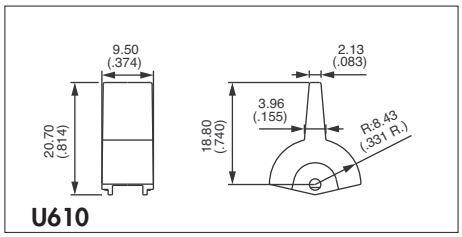
UL

Availability : consult factory for details of approved models.

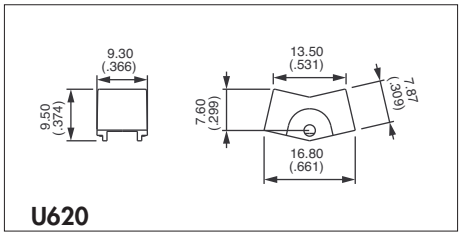
Marking : to order switches marked with the UL symbol, complete above box with "UL".
Blank : no agency approval required.

ACTUATORS

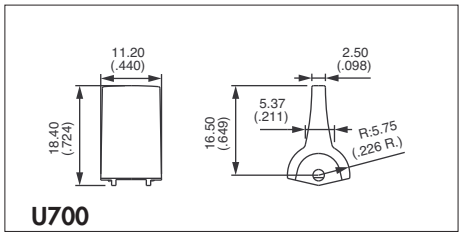




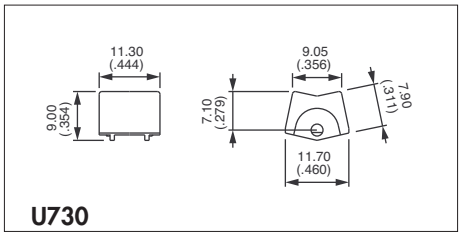
U610
Narrow paddle



U620
Large rocker



U700
Broad paddle

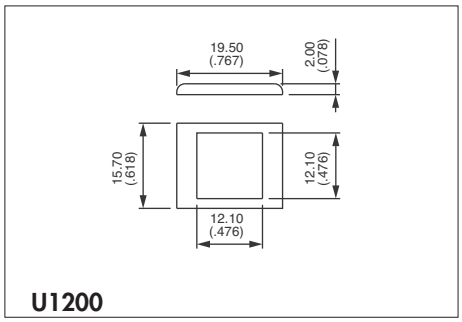


U730
Small rocker

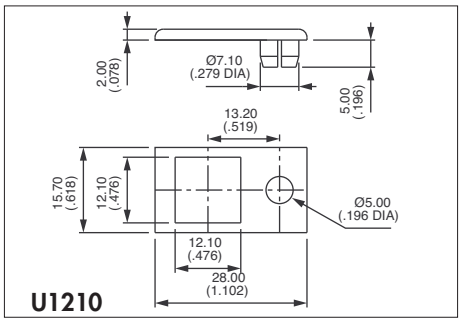
Actuator colours	
Replace last "0" by number	
1	blue
1/4	dark blue
2	black
3	green
4	grey
5	yellow
6	red
7	ivory
7/1	white
9	orange

U610 and U620 not available on SK models

Bezels for SK model (snap-in)
Add bezel part number to actuator part number.

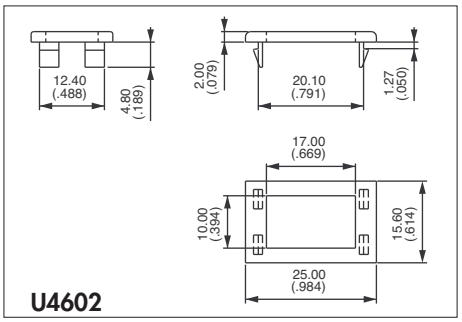


U1200
Bezel



U1210
Bezel for LED Ø 5 (.196) - not supplied

Bezel for SW - SWW and SY models

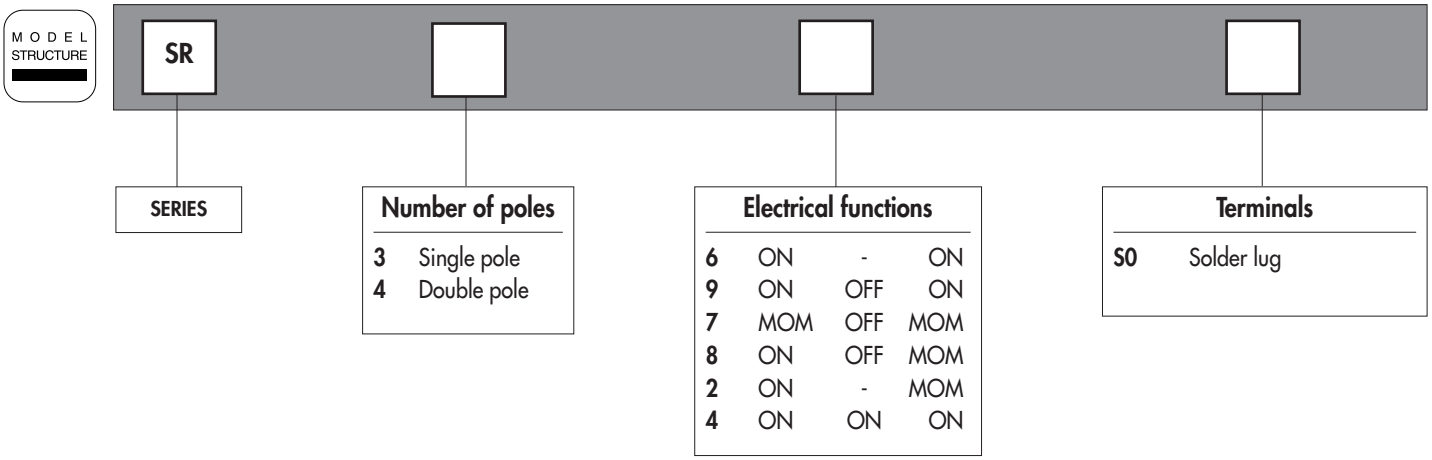


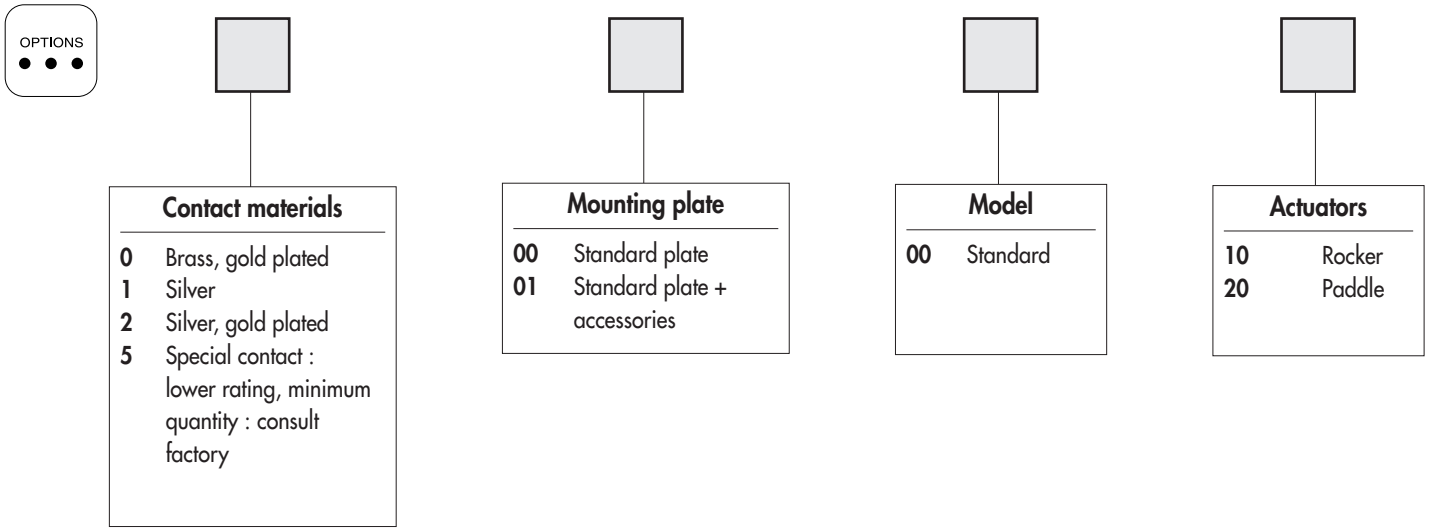
U4602
Black bezel - for rocker U620 only

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).

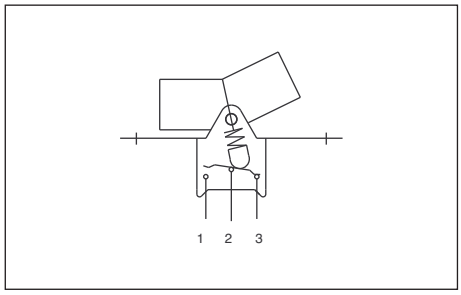
Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.

Packaging unit : 20 pieces.

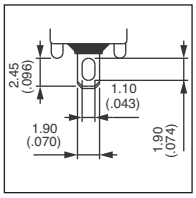
SR series

Washable rocker and paddle switches

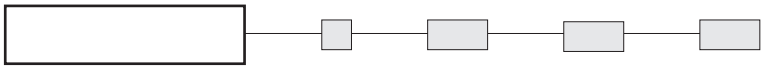
Solder lug terminals



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



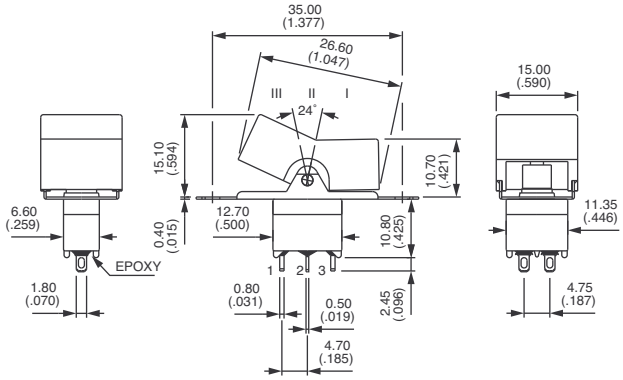
MODEL STRUCTURE



Shown with standard mounting plate (code 00)

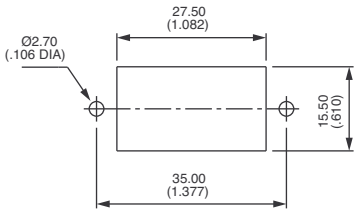
Solder lug terminals

Single pole	Double pole	III	II	I
SR36S0	**SR46S0**	ON	-	ON
SR39S0	**SR49S0**	ON	OFF	ON
SR37S0	**SR47S0**	MOM	OFF	MOM
SR38S0	**SR48S0**	ON	OFF	MOM
SR32S0	**SR42S0**	ON	-	MOM
	SR44S0*	ON	ON	ON



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

PANEL CUT-OUT



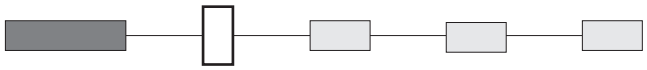
D

SR series

Washable rocker and paddle switches

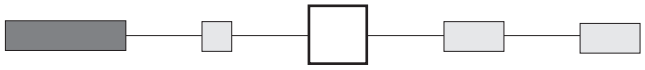
OPTIONS

CONTACT MATERIALS



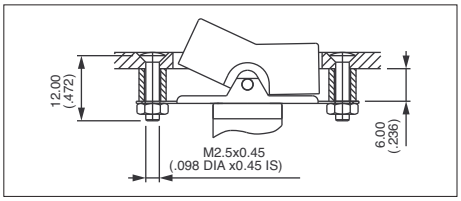
0 Brass, gold plated
1 Silver
2 Silver, gold plated
5 Special contact, lower rating, minimum quantity : consult factory.

MOUNTING PLATE

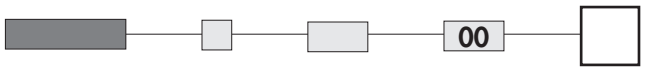


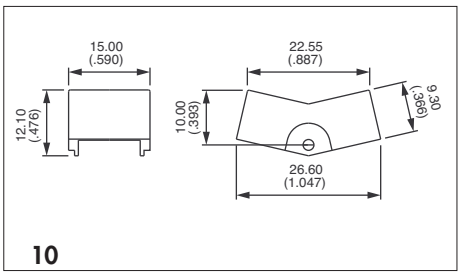
00 Standard mounting plate

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

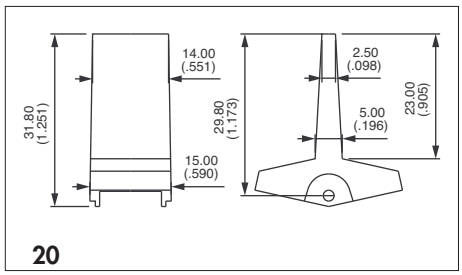


ACTUATORS





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

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

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