

General Specifications

Toggles

Rockers
B

Pushbuttons

PB

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

Electrical Capacity (Resistive Load)

Logic Level: 0.4VA maximum @ 28V AC/DC maximum
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Contact Resistance: 50 milliohms maximum
Insulation Resistance: 500 megohms minimum @ 500V DC
Dielectric Strength: 500V AC minimum for 1 minute minimum
Mechanical Life: 100,000 operations minimum for On-None-On & On-Off-On
50,000 operations minimum for other circuits
Electrical Life: 50,000 operations minimum
Nominal Operating Force: 2.73N (momentary); 1.84N (maintained)
Contact Timing: Nonshorting (break-before-make)
Angle of Throw: 26°

Materials & Finishes

Actuator or Toggle: Nickel plated brass
Case Housing: Glass fiber reinforced polyamide
Support Bracket: Tin plated phosphor bronze
Movable Contact: Phosphor bronze with gold plating
Stationary Contacts: Brass with gold plating
Terminals: Brass with gold plating

Environmental Data

Operating Temperature Range: -30°C through +85°C (-22°F through +185°F)
Humidity: 90 ~ 95% humidity for 240 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Cap Installation Force: 39.23N (8.82 lbf) maximum downward force on actuator

PCB Processing

Soldering: Wave Soldering Recommended: See Profile A in Supplement section.
Manual Soldering: See Profile B in Supplement section.
Cleaning: Automated cleaning. See Cleaning specifications in Supplement section.

Standards & Certifications

The A Series rockers have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.

Distinctive Characteristics

Subminiature size saves space on PC boards.

Specifically developed for logic-level applications.

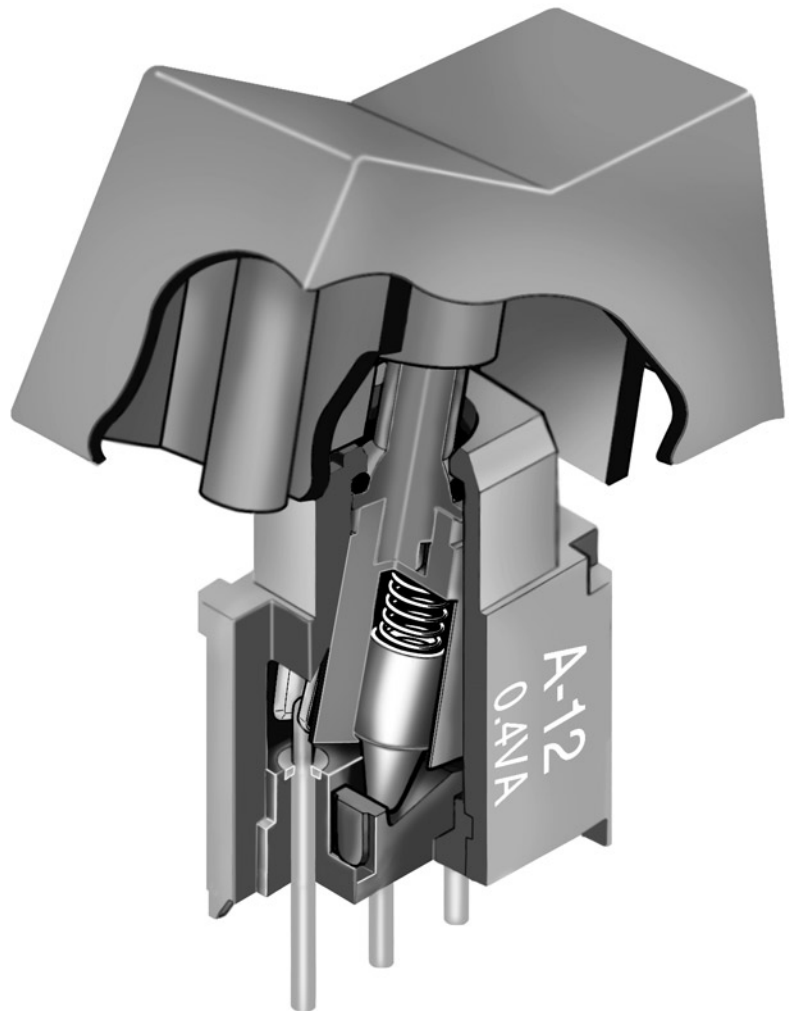
Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and cleaning.

Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

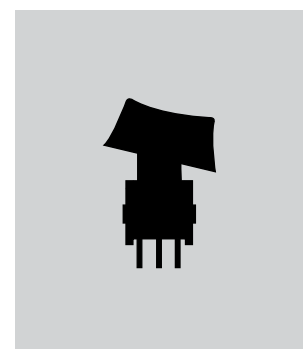
Molded-in, epoxy sealed or ultrasonically welded terminals lock out flux, solvents, and other contaminants.

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing.

Matching indicators available.



Actual Size



Toggles

B Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

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Supplement

TYPICAL SWITCH ORDERING EXAMPLE

A **2** **2** **K1** **H** — **D** **A**

Poles	
1	SPDT
2	DPDT SP3T

PC Terminals	
P	Straight
B	Straight with Bracket
B1	Straight with Inline Bracket (Single Pole only)
H	Right Angle with Bracket
V	Vertical with Bracket
V1	Vertical with Inline Bracket (Single Pole only)

Circuits			
2	ON	NONE	ON
3	ON	OFF	ON
5	ON	NONE	(ON)
R	(ON)	NONE	ON
8	(ON)	OFF	(ON)
9	ON	OFF	(ON)
S	(ON)	OFF	ON
*4	ON	ON	ON
*6	(ON)	ON	(ON)
*7	ON	ON	(ON)
() = Momentary			
*3-ON circuits			

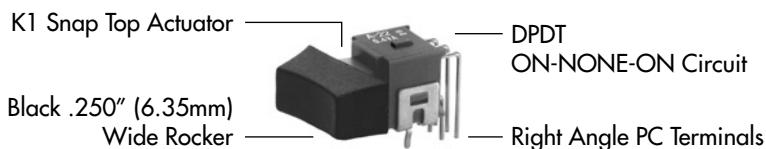
Actuators	
K	Snap Top for Rocker Code C
*K1	Snap Top for Rockers Codes D & E
*Available in Americas only	

Rockers	
C	.260" (6.6mm) Wide (K only)
D	.250" (6.35mm) Wide (K1 only)
E	.300" (7.6mm) Wide (K1 only)

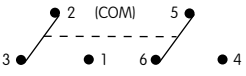
Colors		
Rocker C	Rockers D & E	
A	Black	A
B	White	B
C	Red	C
E	Yellow	—
F	Green	—
G	Blue	—
H	Gray	—

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

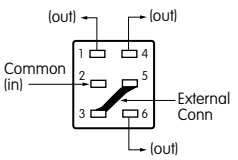
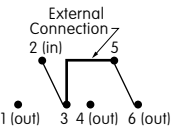
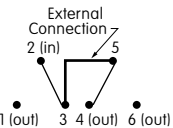
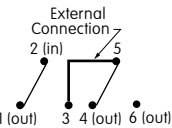
A22K1H-DA



POLES & CIRCUITS

		Rocker Position () = Momentary			Connected Terminals			Throw & Schematics
Pole	Model	Up 	Center 	Down 	Up 	Center 	Down 	Note: Terminal numbers are not actually on the switch.
SP	A12	ON	NONE	ON	2-3	OPEN	2-1	SPDT 
	A13	ON	OFF	ON				
	A15	ON	NONE	(ON)				
	A1R	(ON)	NONE	ON				
	A18	(ON)	OFF	(ON)				
	A19	ON	OFF	(ON)				
	A1S	(ON)	OFF	ON				
DP	A22	ON	NONE	ON	2-3 5-6	OPEN	2-1 5-4	DPDT 
	A23	ON	OFF	ON				
	A25	ON	NONE	(ON)				
	A2R	(ON)	NONE	ON				
	A28	(ON)	OFF	(ON)				
	A29	ON	OFF	(ON)				
	A2S	(ON)	OFF	ON				

For 3 Throw (3-On)

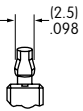
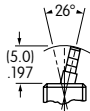
Connected Terminals & Schematics					External Connection
Pole	Model	Up	Center	Down	The SP3T model utilizes a double pole base. External connections must be made during field installation. 
SP	A24 A26 A27	ON (ON) ON  2-3 5-6	ON ON ON  2-3 5-4	ON (ON) (ON)  2-1 5-4	

ACTUATORS



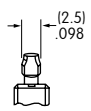
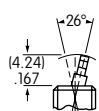
Snap Top

For Rocker AT469



Snap Top

For Rockers AT062 and AT066

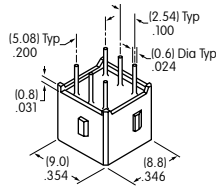


PC TERMINALS

Use of a support bracket is recommended to increase PCB mounting strength and stability.

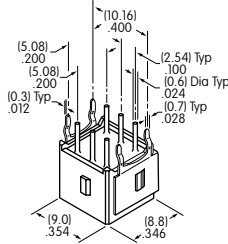
P

Straight



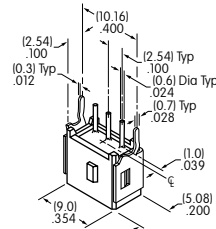
B

Straight with Bracket



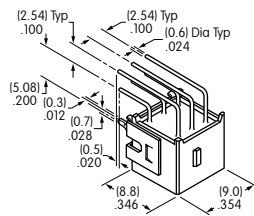
B1

**Straight with Inline Bracket
Single Pole only**



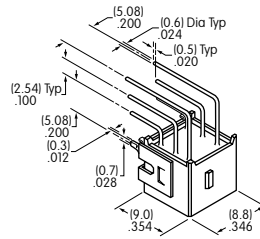
H

**Right Angle
with Bracket**



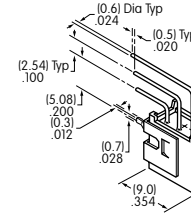
V

Vertical with Bracket



V1

**Vertical with Inline Bracket
Single Pole only**

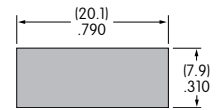
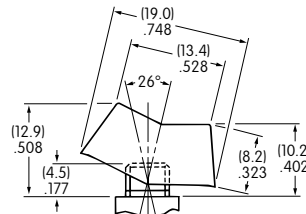
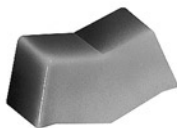


ROCKERS & COLORS

C

**AT469
.260" (6.6mm) Wide Rocker**

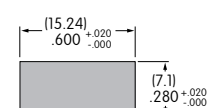
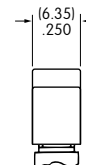
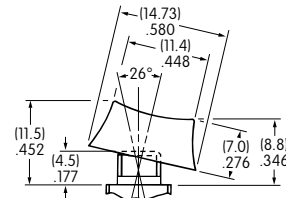
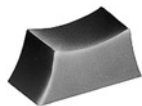
Antirotational
Material: Polyamide
Colors Available:
A, B, C, E, F, G, H



D

**AT062
.250" (6.35mm) Wide Rocker**

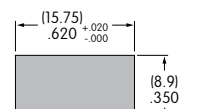
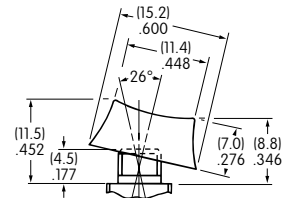
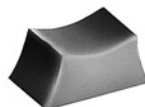
Antirotational
Material: Polyamide
Colors Available:
A, B, C



E

**AT066
.300" (7.6mm) Wide Rocker**

Antirotational
Material: Polyamide
Colors Available:
A, B, C



Color Codes:

A

Black

B

White

C

Red

E

Yellow

F

Green

G

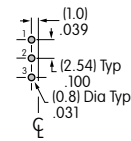
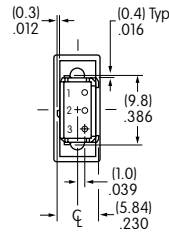
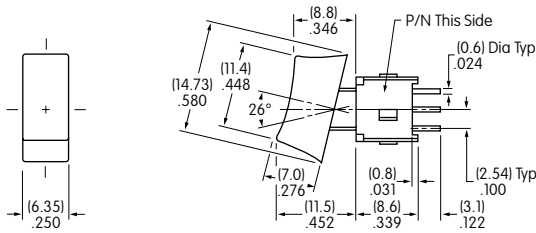
Blue

H

Gray

TYPICAL SWITCH DIMENSIONS

Single Pole

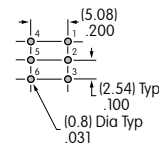
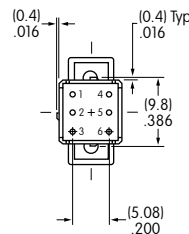
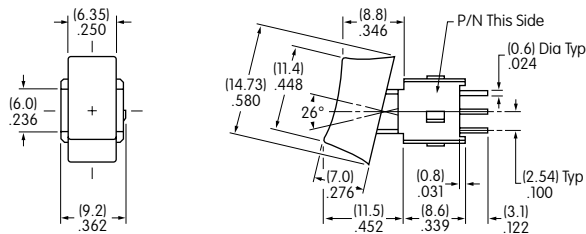


Straight PC



A12K1P-DA

Double Pole

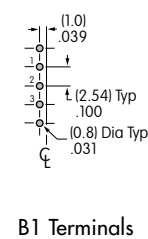
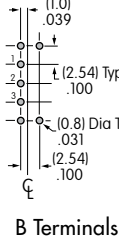
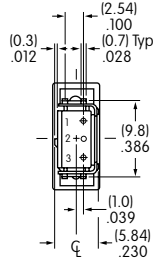
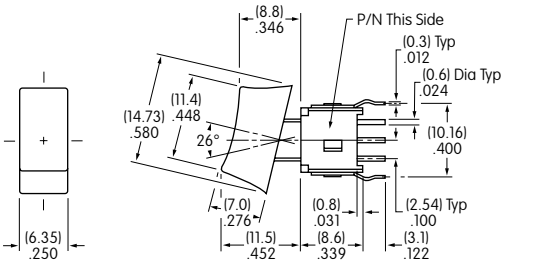


Straight PC



A22K1P-DA

Single Pole

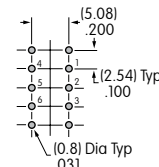
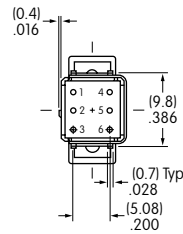
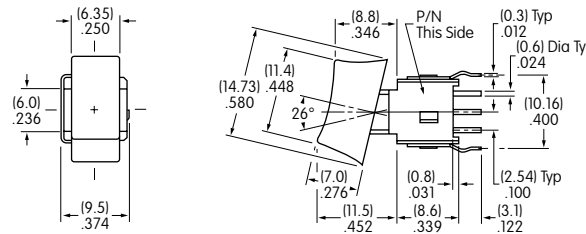


Straight PC • Bracket



A12K1B-DA

Double Pole

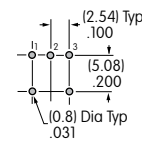
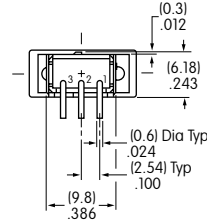
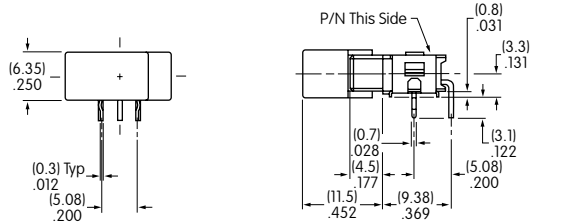


Straight PC • Bracket



A22K1B-DA

Single Pole



Right Angle PC



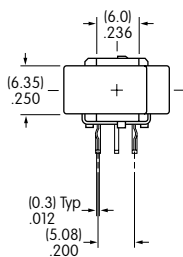
A12K1H-DA

TYPICAL SWITCH DIMENSIONS

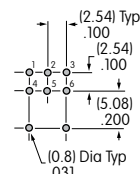
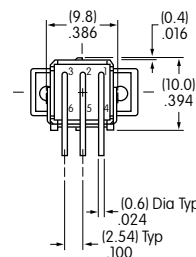
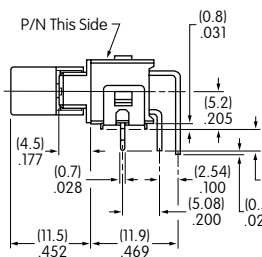
Right Angle PC



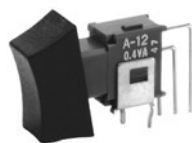
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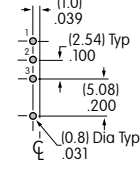
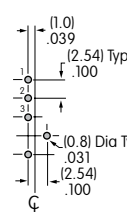
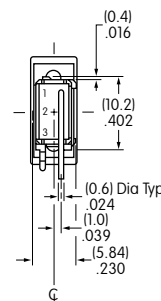
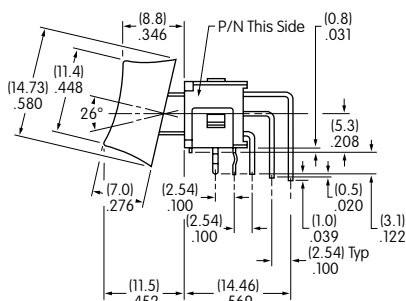
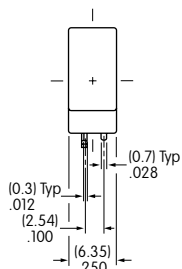
Double Pole



Vertical PC



A12K1V-DA



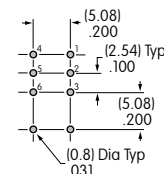
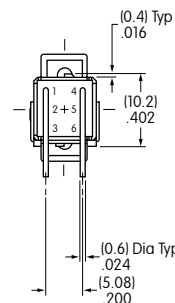
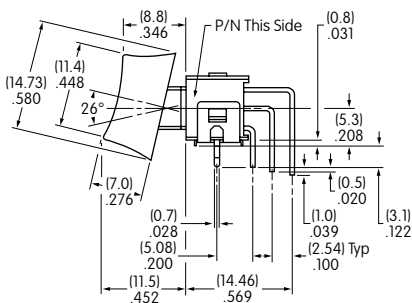
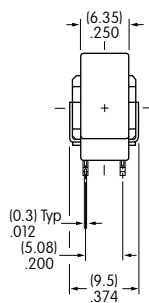
V Terminals

V1 Terminals

Vertical PC



A22K1V-DA



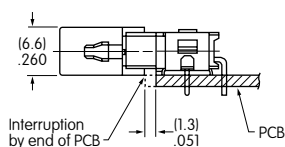
ROCKER MOUNTING PRECAUTION

Rocker switches with vertical and right angle terminals must be mounted so that extension of the PC board beyond the top of the switch housing does not interrupt rocker movement, in turn causing incomplete switching operation.

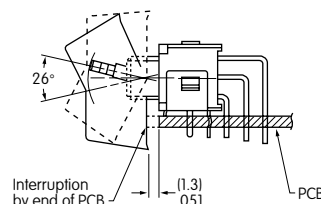
The MAXIMUM limit of the PC board extension is .051" (1.3mm), as illustrated below.

This precaution does not apply to the double pole switch with right angle terminals due to the extra width of the switch allowing the rocker to clear the PC board.

Side View of Rocker
Right Angle Mounting PC
Single Pole Only



Side View of Rocker
Vertical Mounting PC
Single Pole and
Double Pole



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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