

General Specifications

B Electrical Capacity

Resistive Load:	10A @ 125V AC or 6A @ 250V AC
Motor Load:	400W @ 125V AC
Lamp Load:	2A @ 125V AC for On-Off-On circuit & 3A @ 125V AC for other circuits

Other Ratings

Contact Resistance:	10 milliohms maximum
Insulation Resistance:	1,000 megohms minimum @ 500V DC
Dielectric Strength:	2,000V AC minimum between contacts for 1 minute minimum; 4,000V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	50,000 operations minimum
Electrical Life:	25,000 operations minimum
Angle of Throw:	25°

Materials & Finishes

Frame:	Stainless steel
Case/Base:	Diallyl phthalate resin (UL94V-0)
Movable Contacts:	Silver alloy with silver plating
Stationary Contacts:	Pure silver with silver plating
Terminals:	Copper with silver plating

Environmental Data

Operating Temp Range:	-10°C through +85°C (+14°F through +185°F)
Humidity:	90 ~ 95% humidity for 96 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/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Soldering Time & Temp:	Wave Soldering (Straight PC): See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section.
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards:	UL94V-0 rated case/base
UL:	File No. E44145 - Recognized only when ordered with marking on switch. Add "/U" before dash in part number to order UL recognized switch. Add "/CUL" before dash in part number to order cULus recognized switch. All models recognized at 10A @ 125V AC & 6A @ 250V AC.
CSA:	File No. 023535_0_000 - Certified only when ordered with marking on switch. Add "/C" before dash in part number to order CSA certified switch. All models certified at 10A @ 125V AC & 6A @ 250V AC.
VDE:	License No. 119174 All models approved at 10A @ 125V AC & 6A @ 250V AC. Marking on switch is standard. All models meet EN 61058-1 standard.

Distinctive Characteristics

Meets EN 61058-1 standard.

Contacts of special silver alloy resist arcing and guarantee stable electrical contact and long life.

Stainless steel frame resists corrosion and increases environmental safety.

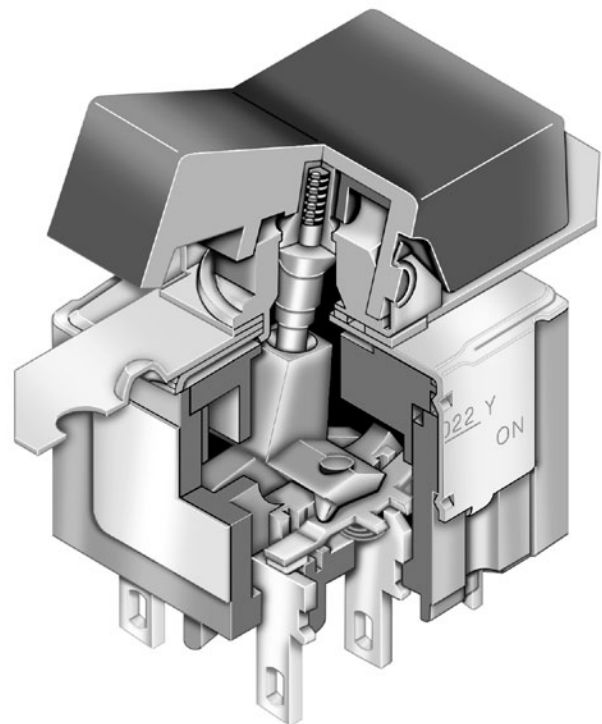
High insulating barriers increase isolation of circuits in double pole devices and provide added protection to contact points.

Case/base of heat resistant resin meets UL94V-0 flammability standard.

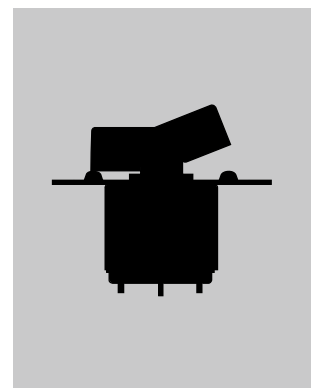
Prominent external insulating barriers increase insulation resistance and dielectric strength.

Clinching of the frame to the case well above the base and terminals provides 4,000V dielectric strength.

Epoxy sealed terminals prevent entry of flux, solvents, and other contaminants.



Actual Size



Toggles
B Rockers
Pushbuttons
Illuminated PB
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

TYPICAL SWITCH ORDERING EXAMPLE

P20

22

Y

J

C

Poles & Circuits				
11	SPST	ON	NONE	OFF
12	SPDT	ON	NONE	ON
13	SPDT	ON	OFF	ON
21	DPST	ON	NONE	OFF
22	DPDT	ON	NONE	ON
23	DPDT	ON	OFF	ON

Paddle/Rocker Frames	
N	Frame for Small Caps
Y	Frame for Large Caps

Terminals	
No Code	Solder Lug*
P	Straight PC
Z	.187" (4.75mm) Quick Connect

Rocker/Paddle Caps	
For N Frame	
D	.365" (9.27mm) Wide Rocker
E	.365" (9.27mm) Wide Paddle
For Y Frame	
J	.595" (15.11mm) Wide Rocker
H	.595" (15.11mm) Wide Paddle

Cap Colors	
A	Black
B	White
C	Red
E	Yellow
F	Green
G	Blue
H	Gray

IMPORTANT:



VDE is marked on all models. Switches are supplied without UL, cULus & CSA marking unless specified. **UL, cULus & CSA recognized only when ordered with marking on the switch.** Specific models, ratings, & ordering instructions are noted on General Specifications page.

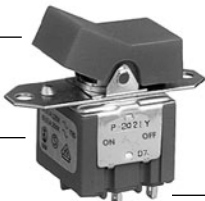
* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

P2022Y-JC

.595" (15.11mm) Wide Red Rocker

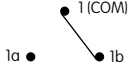
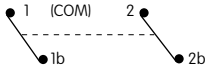
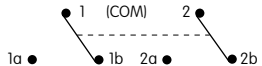
DPDT ON-NONE-ON Circuit



Frame for Large Caps

Solder Lug Terminals

POLES & CIRCUITS

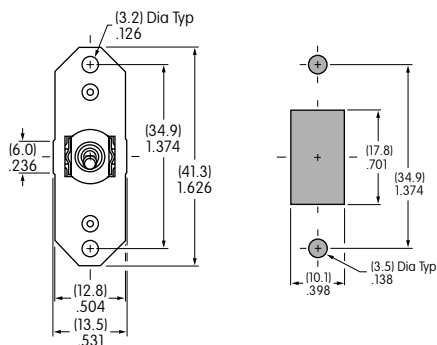
Pole	Model	Rocker Position			Connected Terminals			Throw & Schematics
		Down	Center	Up	Down	Center	Up	
								Note: Terminal numbers are on the switch.
SP	P2011	ON	NONE	OFF	1-1b	OPEN	OPEN	SPST 
SP	P2012 P2013	ON ON	NONE OFF	ON ON	1-1b	OPEN	1-1a	SPDT 
DP	P2021	ON	NONE	OFF	1-1b 2-2b	OPEN	OPEN	DPST 
DP	P2022 P2023	ON ON	NONE OFF	ON ON	1-1b 2-2b	OPEN	1-1a 2-2a	DPDT 

ROCKER/PADDLE FRAMES

N Frame for
Small Actuator

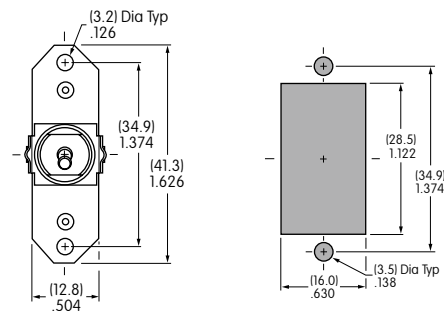
Y Frame for
Large Actuator

Using AT4148 & AT4149



Maximum Panel Thickness: .126" (3.2mm)

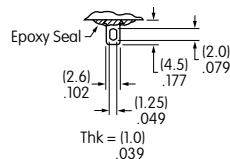
Using AT4156 & AT4157



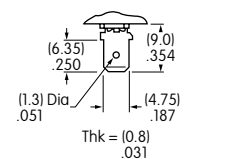
Maximum Panel Thickness: .126" (3.2mm)

TERMINALS

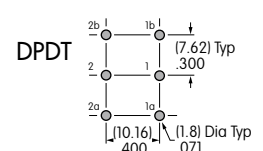
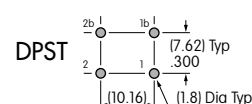
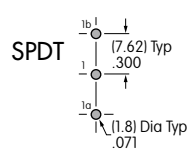
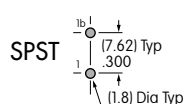
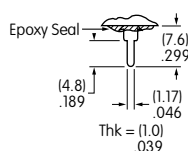
No Code Solder Lug



Z .187" (4.75mm)
Quick Connect



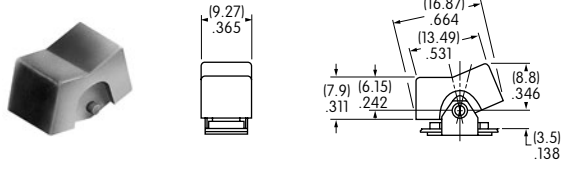
P Straight PC



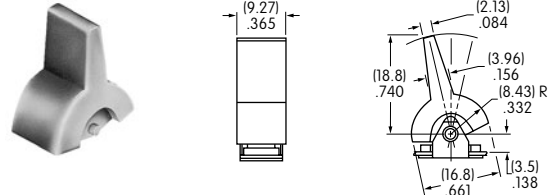
ROCKER/PADDLE CAPS

For N Frame

D AT4148
.365" (9.27mm) Wide Rocker

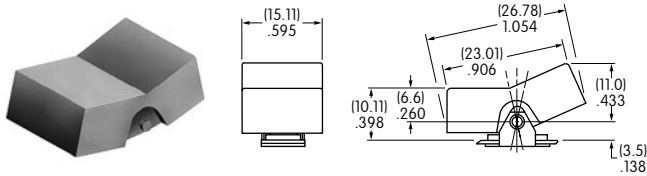


E AT4149
.365" (9.27mm) Wide Paddle

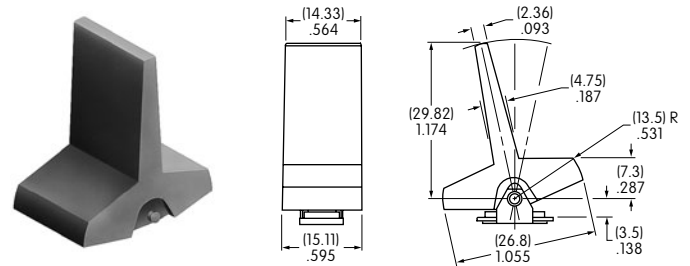


For Y Frame

J AT4156
.595" (15.11mm) Wide Rocker



H AT4157
.595" (15.11mm) Wide Paddle



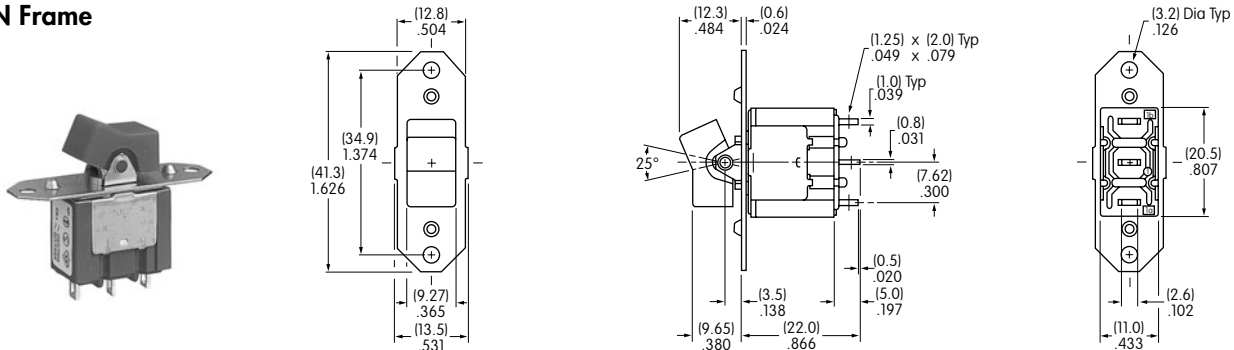
Cap Colors Available:

A Black **B** White **C** Red **E** Yellow **F** Green **G** Blue **H** Gray

Material: Polyamide Finish: Matte

TYPICAL SWITCH DIMENSIONS

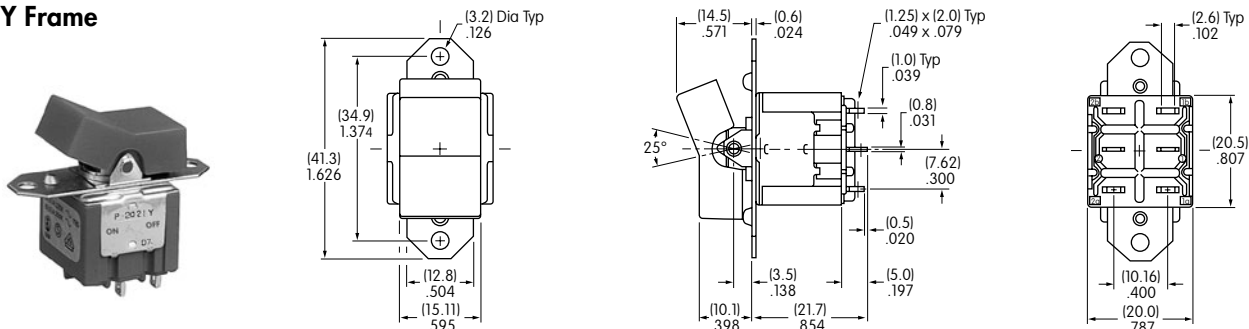
N Frame



P2012N-DC

P2011 & P2021 models do not have terminals 1a & 2a.

Y Frame



P2022Y-JC

P2011 & P2021 models do not have terminals 1a & 2a.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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