Outline of the Series

OTAX offers a wide range of long-selling, high-rated, and highly reliable operational switches, including toggle, waterproof toggle, rocker, push-button, and rotary switches.

Features of the Series

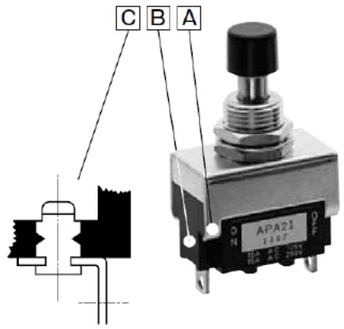
1. All standard models use UL94 V-0 flame-retardant resin for the case.
2. Contact bounce during switching is minimized, ensuring stable operation across a wide current range—from low to high currents.
3. All models feature insert molding to eliminate gaps between metal and resin parts, preventing flux from entering the case.
4. A safety-oriented design ensures that even if the case is deformed by heat, insulation failure will not occur.
5. The switches are designed to meet various standards, offering excellent durability, environmental resistance, impact resistance, and vibration resistance.

A The frame adopts a short clinch structure, completely isolating it from conductive components and providing extremely high insulation performance.

B UL94 V-0 certified flame-retardant resin is used, offering outstanding resistance to arcing, heat, cold, moisture, and impact.

C A fixed contact embedding method is used to completely prevent flux from entering the case.

With this structure, electrical performance is not compromised by heat-induced terminal loosening or case deformation.



Common Specifications

Ratings ☐ =Type of Terminals Symbol（1, 2, 4, 5）

Symbol / Voltage	0 ☐	1 ☐	2 ☐	Load	Notes
AC125/250V	25A	20A	15A	Resistive Load	Load only with Resistive, Power Factor=1
DC30V	25A	20A	15A		

* A resistive load refers to a load consisting solely of resistance. In actual circuits, however, there may be inductive, capacitive, or motor loads, each of which can generate inrush current. Therefore, when selecting a switch, be sure to choose a rating with sufficient margin above the steady-state current.

For more details, please refer to "Useful Advices and Precautions on Usage of Operational Switches."

Packaging Quantity	
SP・DP	100 pcs
3P・4P	50 pcs

Contact Resistance	10 mΩ Max. (DC2V 1A) (Initial value)
Withstanding Voltage	AC1,500V 1 Minute
Insulating Resistance	1,000MΩ Min. (DC500V)
Electrical Life	20,000 times
Operating Temperature Range	-20℃～ +70℃
Storage Temperature Range	-20℃～ +70℃
Hand-soldering Conditions	350 ± 3℃ Within 3 sec.

* For products other than those listed above or for custom items, please contact us.

Product Designations

Series Name	Operational-part Type	Switch Functions	Current Capacity	Type of Terminals
A	P	A	2	1

Operational-part	Symbol
One Pushbutton	P
Two Pushbutton	B

Current Capacity	Symbol
25A 125/250V AC	0
20A 125/250V AC	1
15A 125/250V AC	2

SwitchFunctions			Symbol	
The Opposite Side	Center	Key Thread Side	SP 3P	DP 4P
ON	-	OFF	A	K
ON	-	ON	D	N
ON	OFF	ON	E	P
ON	-	<ON>	F	R

< > = Momentary

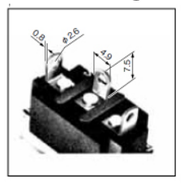
Switch Functions F, R are for One-pushbutton、Switch Functions E, P are for Two-pushbutton only respectively.

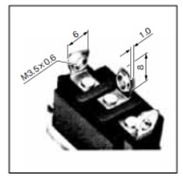
Type of Terminals	Symbol
Solder Lug	1
Screw Terminal	2
Quick Connect Terminal #187	4
Quick Connect Terminal #250	5

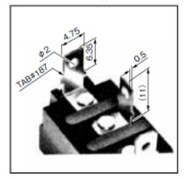
Screw Terminal and Quick Connect Terminal # 187 are with 15A, Quick Connect Terminal # 250 with 20,25A only.

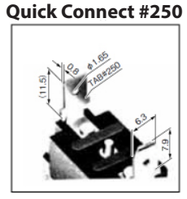
■ Examples of Terminal Figures（SP/ DP, ON-ON Type）

SP

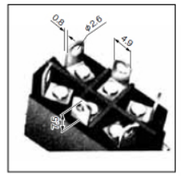


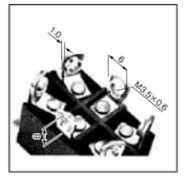


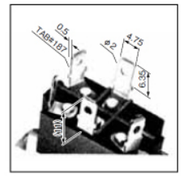


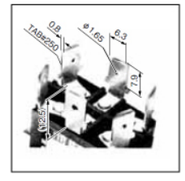


DP

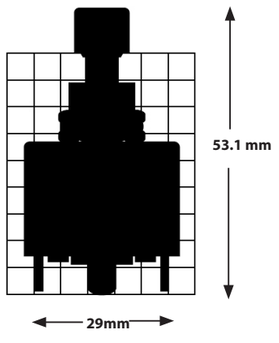








Silhouette（APD21）



* For products other than those listed above or for custom items, please contact us.

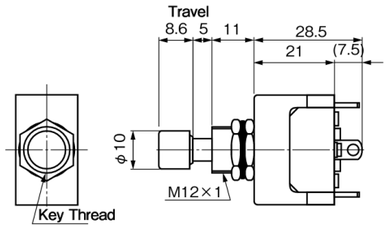
Pushbutton
A Series
250V/125VAC
25A
20A
15A
Solder Lug
Screw
Quick Connect
SP 2P

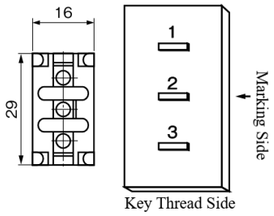
Switch Names, Functions, Terminal Diagram

S P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary Alternate		
APA01	25A	APA11	20A	APA21	15A	SPST	ON 1-3	—	OFF
APD01	25A	APD11	20A	APD21	15A	SPDT	ON 2-3	—	ON 2-1

Product Name		Product Name		Product Name		Circuit	Initial Button Position	When the Button is Pushed
APF01	25A	APF11	20A	APF21	15A	SPDT	ON 2-3	‹ON› 2-1



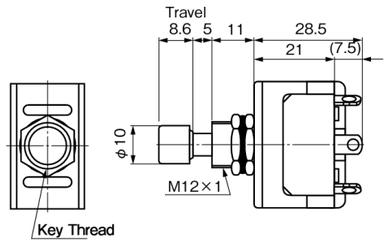


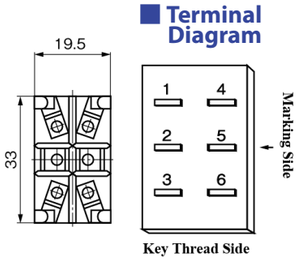
■ Terminal Diagram

D P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary Alternate		
APK01	25A	APK11	20A	APK21	15A	2PST	ON 1-3 4-6	—	OFF
APN01	25A	APN11	20A	APN21	15A	2PDT	ON 2-3 5-6	—	ON 2-1 5-4

Product Name		Product Name		Product Name		Circuit	Initial Button Position	When the Button is Pushed
APR01	25A	APR11	20A	APR21	15A	2PDT	ON 2-3 5-6	‹ON› 2-1 5-4





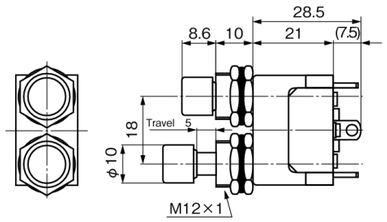
■ Terminal Diagram

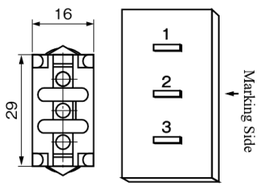
* For products other than those listed above or for custom items, please contact us.

Pushbutton
A Series
250V/125VAC 25A 20A 15A
Solder Lug Screw Quick Connect
SP 2P

S P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
ABA01	25A	ABA11	20A	ABA21	15A	SPST	ON 1-3	—	OFF
ABD01	25A	ABD11	20A	ABD21	15A	SPDT	ON 2-3	—	ON 2-1
ABE01	25A	ABE11	20A	ABE21	15A	SPDT	ON 2-3	OFF	‹ON 2-1

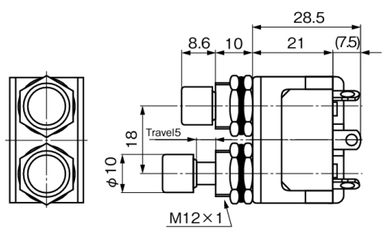


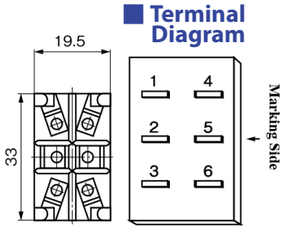


■ Terminal Diagram

D P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
ABK01	25A	ABK11	20A	ABK21	15A	2PolesST	ON 1-3 4-6	—	OFF
ABN01	25A	ABN11	20A	ABN21	15A	2PolesDT	ON 2-3 5-6	—	ON 2-1 5-4
ABP01	25A	ABP11	20A	ABP21	15A	2PolesDT	ON 2-3 5-6	OFF	ON 2-1 5-4





■ Terminal Diagram

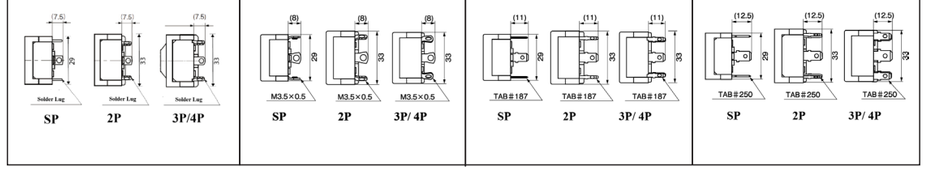
* For products other than those listed above or for custom items, please contact us.

Dimensions of Terminals, Mounting Holes, and Mounting Parts

Dimensions of Terminals

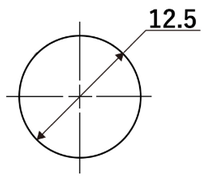
A P □ □ ■ or A B □ □ ■

1 Solder Lug	2 Screw Terminal	4 Quick Connect #187	5 Quick Connect #250



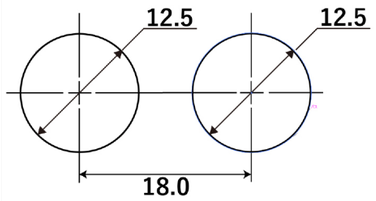
Mounting Hole Dimensions

One-pushbutton



Common for All Poles

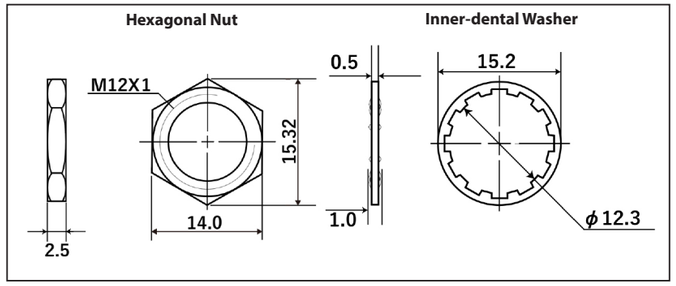
Two-pushbutton



Common for All Poles

Mounting Parts Dimensions

Hexagonal Nut　　Inner-dental Washer

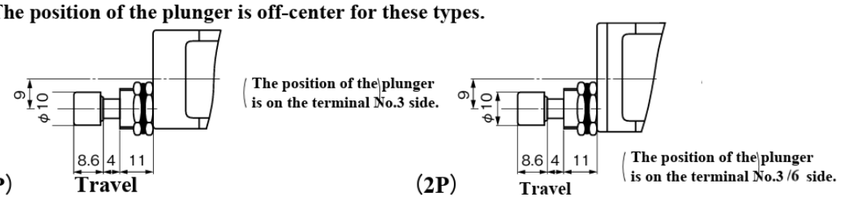


* Only the lower nut is assembled to the main body, and the others are attatched.

Special Remarks

APF □ □
APR □ □

The position of the plunger is off-center for these types.



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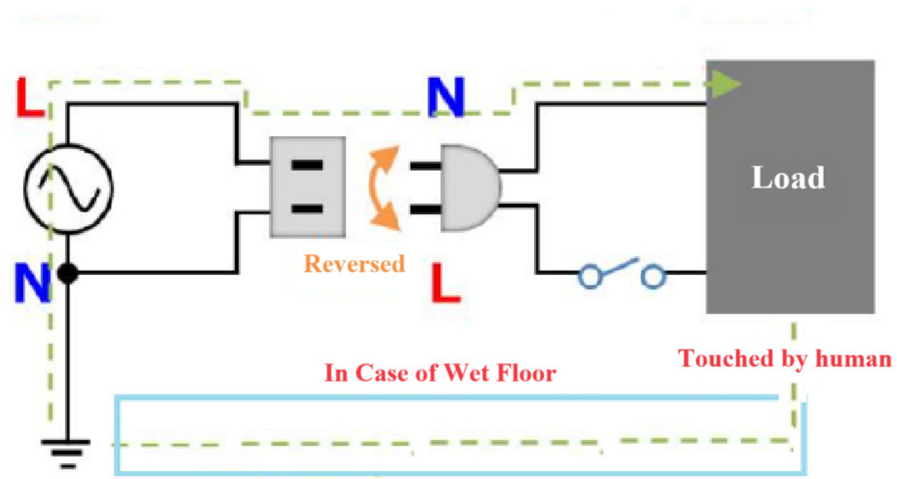
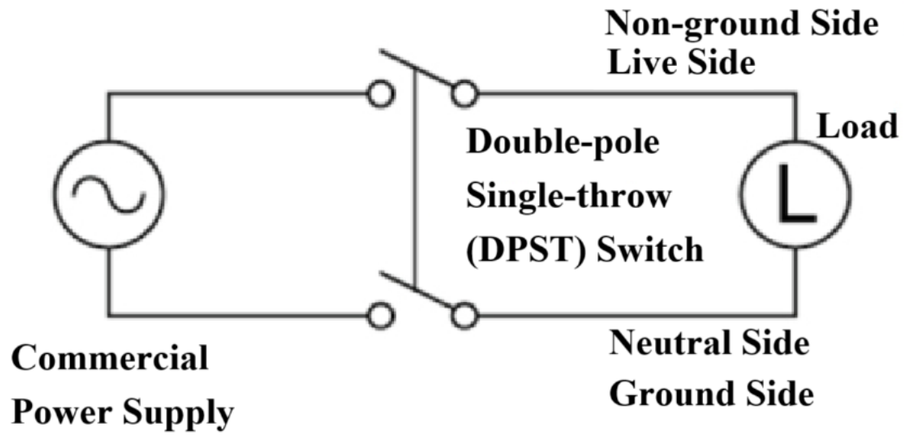
Switch Tips

Simultaneous Switching of 2-Pole Power Switch



Did you know that even standard 100V AC power plugs have a proper orientation?
In a 100V AC system, one side of the power line is grounded (connected to earth). At the same time, many electronic and electrical devices use their metal chassis as a ground reference.
In such a setup, if the plug is inserted in reverse—as shown in the diagram—and a person touches the chassis while standing on a wet floor, a circuit may be formed, allowing current to flow through the person. This poses a serious risk of electric shock.

To prevent such accidents, we recommend using double-pole switching, where both the live (L) and neutral (N) lines are disconnected simultaneously using a two-pole switch. Standard power switches typically control only the live (L) line, but double-pole switches interrupt both lines at once, completely isolating the device from the power source. This provides a higher level of safety, particularly in environments where the floor may be wet or where high-voltage equipment is in use.



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Pushbutton
A Series
250V/125VAC
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20A
15A
Solder Lug
Screw
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