

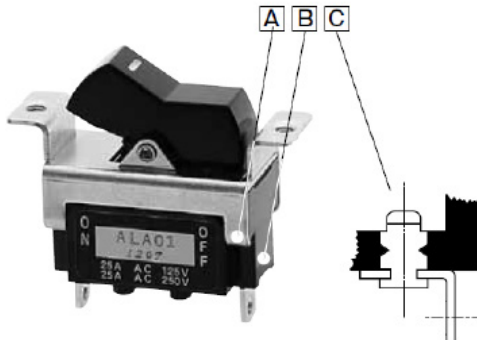
Outline of the Series

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	100 pcs
DP • 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°C ~ +70°C
Storage Temperature Range	-20°C ~ +70°C
Hand-soldering Conditions	350 ± 3°C Within 3 sec.

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

Product Designations

Series Name Poles Operational-part Type Switch Functions Current Capacity Type of Terminals

A		L	A	2	1
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Poles	Symbol
1	(none)
2	(none)
3	3
4	4

Operational-part Type	Symbol
Rocker	L

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

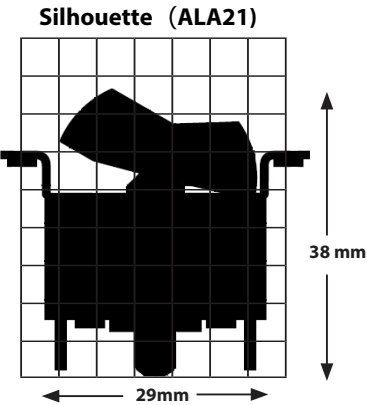
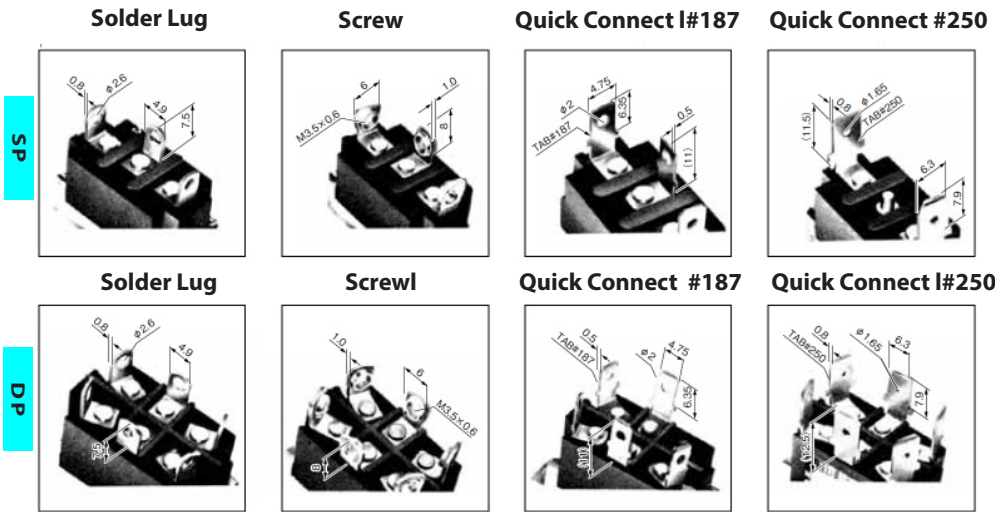
Switch Functions			Symbol	
The Opposite Side	Center	Key Thread Side	SP 3P	DP 4P
ON	-	OFF	A	K
ON	-	ON	D	N
ON	OFF	ON	E	P
ON	-	<ON>	F	R
<ON>	OFF	<ON>	G	S

< > = Momentary

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)

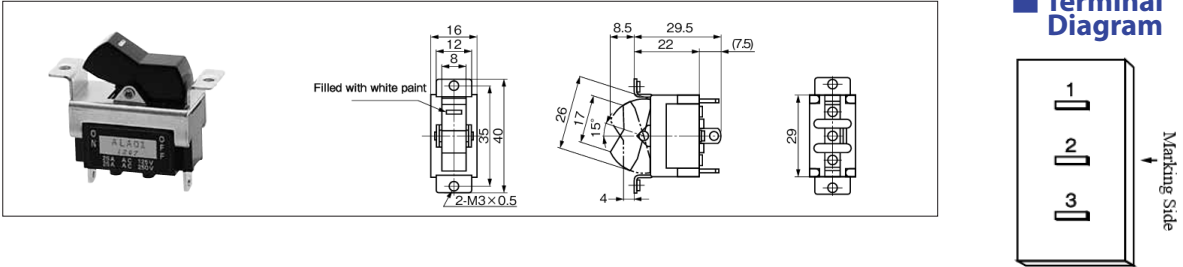


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Switch Names, Functions, Terminal Diagram

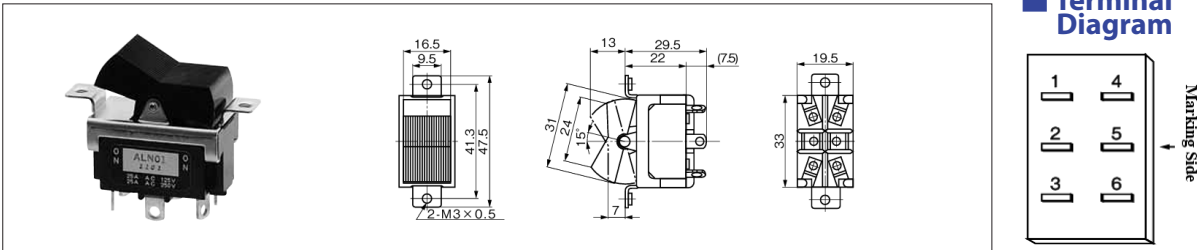
S P

Product Name	Resistive Load	Product Name	Resistive Load	Product Name	Resistive Load	Circuit	Functions <> = Momentary		
	AC125/250V DC30V		AC125/250V DC30V		AC125/250V DC30V				
ALA01	25A	ALA11	20A	ALA21	15A	SPST	ON 1-3	—	OFF
ALD01	25A	ALD11	20A	ALD21	15A	SPDT	ON 2-3	—	ON 2-1
ALE01	25A	ALE11	20A	ALE21	15A	SPDT	ON 2-3	OFF	ON 2-1
ALF01	25A	ALF11	20A	ALF21	15A	SPDT	ON 2-3	—	<ON> 2-1
ALG01	25A	ALG11	20A	ALG21	15A	SPDT	<ON> 2-3	OFF	<ON> 2-1



D P

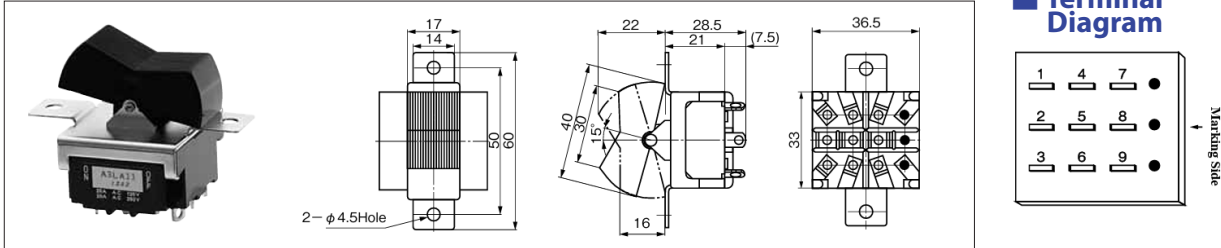
Product Name	Resistive Load	Product Name	Resistive Load	Product Name	Resistive Load	Circuit	Functions <> = Momentary		
	AC125/250V DC30V		AC125/250V DC30V		AC125/250V DC30V				
ALK01	25A	ALK11	20A	ALK21	15A	DPDT	ON 1-3 4-6	—	OFF
ALN01	25A	ALN11	20A	ALN21	15A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4
ALP01	25A	ALP11	20A	ALP21	15A	DPDT	ON 2-3 5-6	OFF	ON 2-1 5-4
ALR01	25A	ALR11	20A	ALR21	15A	DPDT	ON 2-3 5-6	—	<ON> 2-1 5-4
ALS01	25A	ALS11	20A	ALS21	15A	DPDT	<ON> 2-3 5-6	OFF	<ON> 2-1 5-4



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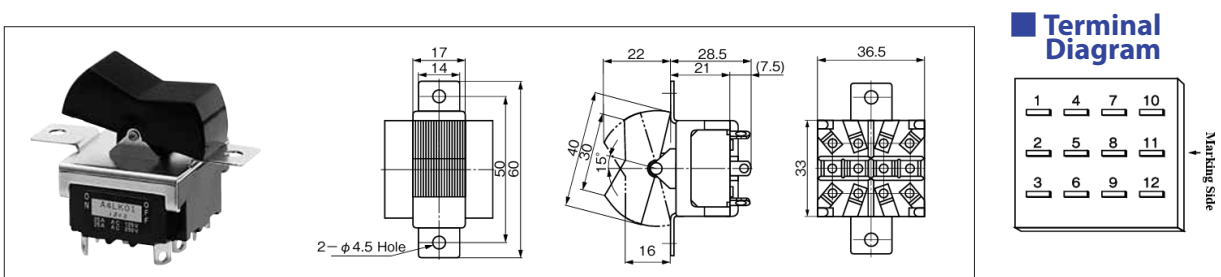
3 P

Product Name	Resistive Load	Product Name	Resistive Load	Product Name	Resistive Load	Circuit	Functions <> = Momentary		
	AC125/250V DC30V		AC125/250V DC30V		AC125/250V DC30V				
A3LA01	25A	A3LA11	20A	A3LA21	15A	3 Poles 単投	ON 1-3 4-6 7-9	—	OFF
A3LD01	25A	A3LD11	20A	A3LD21	15A	3 Poles 双投	ON 2-3 5-6 8-9	—	ON 2-1 5-4 8-7
A3LE01	25A	A3LE11	20A	A3LE21	15A	3 Poles 双投	ON 2-3 5-6 8-9	OFF	ON 2-1 5-4 8-7
A3LF01	25A	A3LF11	20A	A3LF21	15A	3 Poles 双投	ON 2-3 5-6 8-9	—	<ON> 2-1 5-4 8-7
A3LG01	25A	A3LG11	20A	A3LG21	15A	3 Poles 双投	<ON> 2-3 5-6 8-9	OFF	<ON> 2-1 5-4 8-7



4 P

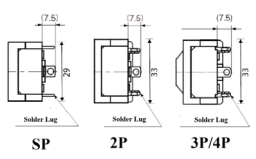
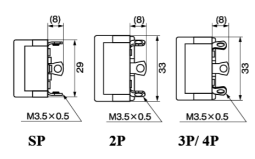
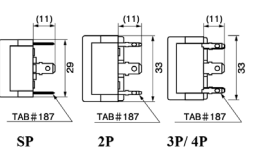
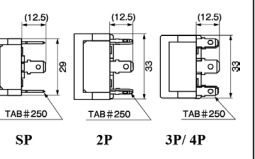
Product Name	Resistive Load	Product Name	Resistive Load	Product Name	Resistive Load	Circuit	Functions <> = Momentary		
	AC125/250V DC30V		AC125/250V DC30V		AC125/250V DC30V				
A4LK01	25A	A4LK11	20A	A4LK21	15A	4PST	ON 1-3 4-6 7-9 10-12	—	OFF
A4LN01	25A	A4LN11	20A	A4LN21	15A	4 Poles 双投	ON 2-3 5-6 8-9 11-12	—	ON 2-1 5-4 8-7 11-10
A4LP01	25A	A4LP11	20A	A4LP21	15A	4 Poles 双投	ON 2-3 5-6 8-9 11-12	OFF	ON 2-1 5-4 8-7 11-10
A4LR01	25A	A4LR11	20A	A4LR21	15A	4 Poles 双投	ON 2-3 5-6 8-9 11-12	—	<ON> 2-1 5-4 8-7 11-10
A4LS01	25A	A4LS11	20A	A4LS21	15A	4 Poles 双投	<ON> 2-3 5-6 8-9 11-12	OFF	<ON> 2-1 5-4 8-7 11-10



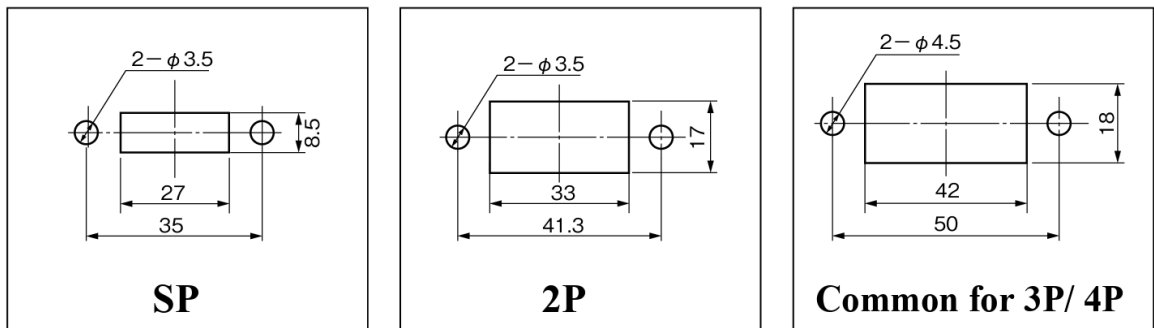
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Dimensions of Terminals, Mounting Holes, and Mounting Parts

■ Dimensions of Terminals A L

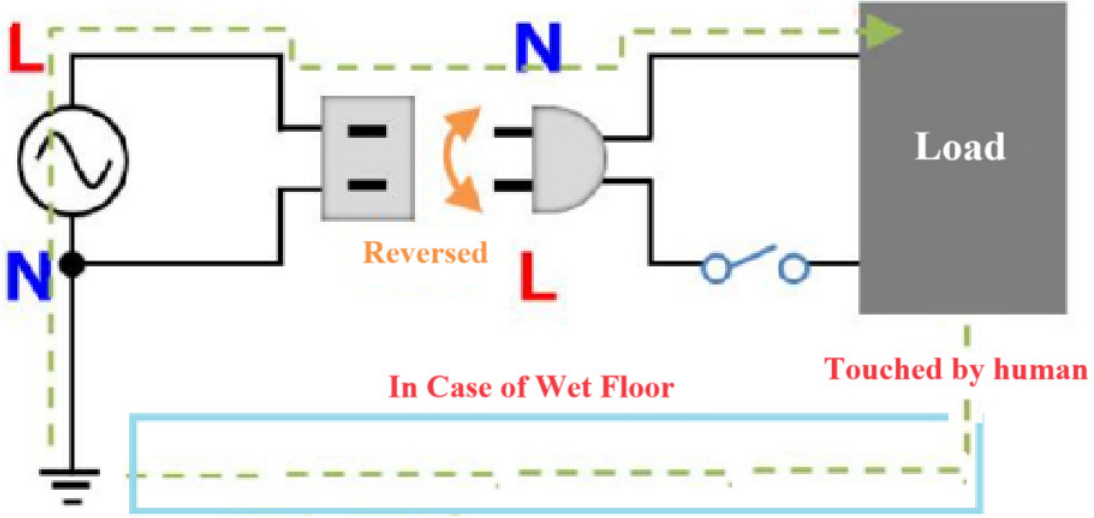
1 Solder Lug	2 Screw Terminal	4 Quick Connect #187	5 Quick Connect #250
			

■ Mounting Hole Dimensions



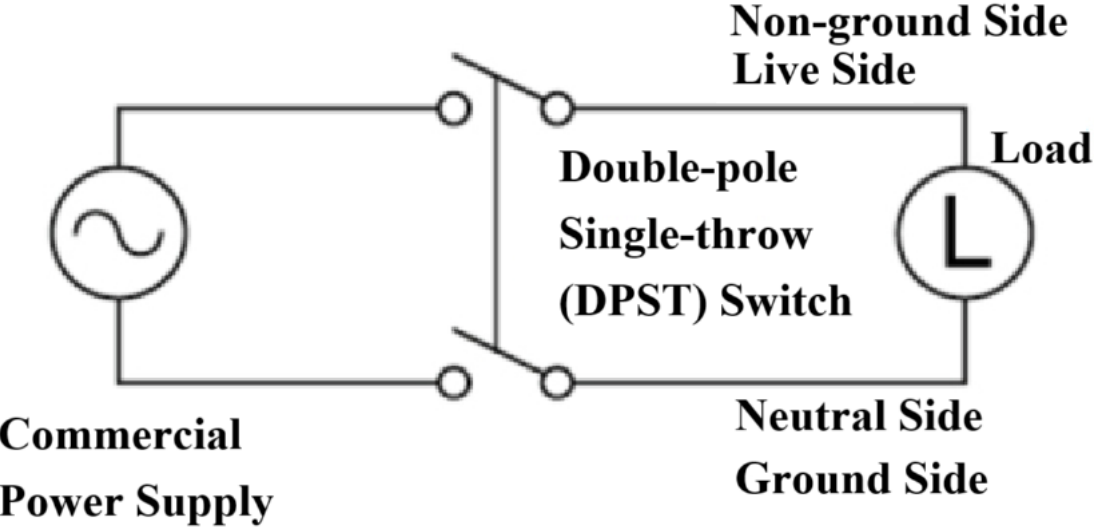
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Switch Tips



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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