Toggle

A Series

250V/125VAC
25A
20A
15A

Solder Lug
Screw
Quick Connect

SP 2P
3P 4P

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

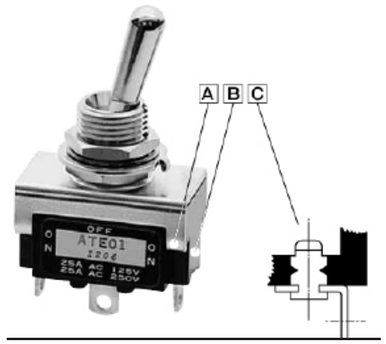
1. All standard models use UL94 V-0 flame-retardant resin for the case.
2. Contact bounce during switching is minimized, ensuring stable operation across a wide current range—from low to high currents.
3. All models feature insert molding to eliminate gaps between metal and resin parts, preventing flux 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）

Voltage / Symbol	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	1,000MΩMin. (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.

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Screw
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Product Designations

Series Name	Poles	Operational-part Type	Switch Functions	Current Capacity	Type of Terminals	Splash-proof Type
A		T	A	2	1	

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

Operational-part	Symbol
Toggle	T

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

Splash-proof Type	Symbol
Non Splash-proof Type	(none)
Splash-proof	W

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
ON	OFF	<ON>	H	T
ON	ON	ON		PA
ON	ON	<ON>		TA

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

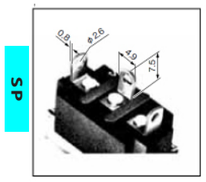
Screw Terminal and Quick Connect Terminal # 187 are with 15A, Quick Connect Terminal # 250 with 20,25A only.

< > = Momentary Function

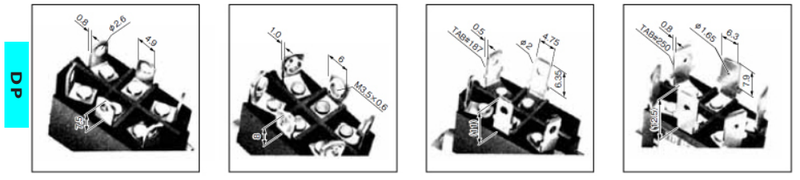
■ The PA and TA types are made-to-order products. Please contact us separately for specifications and other details. Waterproof versions are not available for these types.

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

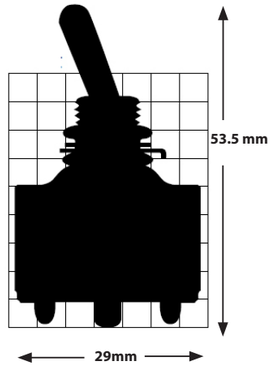
SP



DP



Silhouette（ATA21）

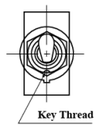


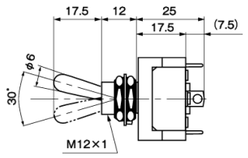
* For products other than those listed above or for custom items, please contact us.

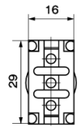
Switch Names, Functions, Terminal Diagram

S P

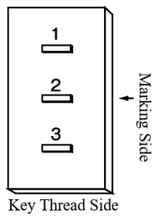
Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
ATA01	25A	ATA11	20A	ATA21	15A	SPST	ON 1-3	—	OFF
ATD01	25A	ATD11	20A	ATD21	15A	SPDT	ON 2-3	—	ON 2-1
ATE01	25A	ATE11	20A	ATE21	15A	SPDT	ON 2-3	OFF	ON 2-1
ATF01	25A	ATF11	20A	ATF21	15A	SPDT	ON 2-3	—	<ON> 2-1
ATG01	25A	ATG11	20A	ATG21	15A	SPDT	<ON> 2-3	OFF	<ON> 2-1
ATH01	25A	ATH11	20A	ATH21	15A	SPDT	ON 2-3	OFF	<ON> 2-1





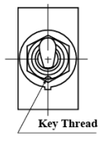


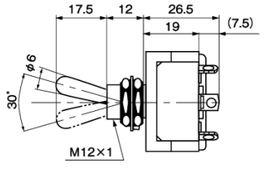
Terminal Diagram

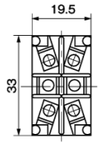


D P

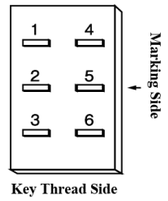
Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
ATK01	25A	ATK11	20A	ATK21	15A	2 PolesST	ON 1-3 4-6	—	OFF
ATN01	25A	ATN11	20A	ATN21	15A	2 PolesDT	ON 2-3 5-6	—	ON 2-1 5-4
ATP01	25A	ATP11	20A	ATP21	15A	2 PolesDT	ON 2-3 5-6	OFF	ON 2-1 5-4
ATR01	25A	ATR11	20A	ATR21	15A	2 PolesDT	ON 2-3 5-6	—	<ON> 2-1 5-4
ATS01	25A	ATS11	20A	ATS21	15A	2 PolesDT	<ON> 2-3 5-6	OFF	<ON> 2-1 5-4
ATT01	25A	ATT11	20A	ATT21	15A	2 PolesDT	ON 2-3 5-6	OFF	<ON> 2-1 5-4





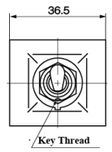


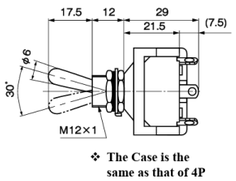
Terminal Diagram



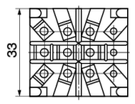
3 P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
A3TA01	25A	A3TA11	20A	A3TA21	15A	3 PolesST	ON 1-3 4-6 7-9	—	OFF
A3TD01	25A	A3TD11	20A	A3TD21	15A	3 PolesDT	ON 2-3 5-6 8-9	—	ON 2-1 5-4 8-7
A3TE01	25A	A3TE11	20A	A3TE21	15A	3 PolesDT	ON 2-3 5-6 8-9	OFF	ON 2-1 5-4 8-7
A3TF01	25A	A3TF11	20A	A3TF21	15A	3 PolesDT	ON 2-3 5-6 8-9	—	<ON> 2-1 5-4 8-7
A3TG01	25A	A3TG11	20A	A3TG21	15A	3 PolesDT	<ON> 2-3 5-6 8-9	OFF	<ON> 2-1 5-4 8-7
A3TH01	25A	A3TH11	20A	A3TH21	15A	3 PolesDT	ON 2-3 5-6 8-9	OFF	<ON> 2-1 5-4 8-7

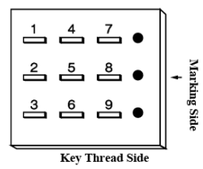




❖ The Case is the same as that of 4P

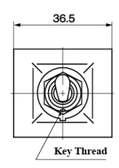


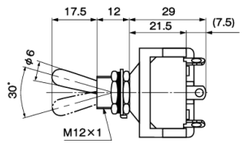
Terminal Diagram

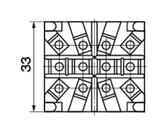


4 P

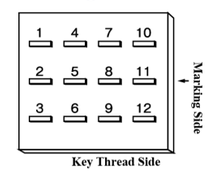
Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
A4TK01	25A	A4TK11	20A	A4TK21	15A	4 PolesST	ON 1-3 4-6 7-9 10-12	—	OFF
A4TN01	25A	A4TN11	20A	A4TN21	15A	4 PolesDT	ON 2-3 5-6 8-9 11-12	—	ON 2-1 5-4 8-7 11-10
A4TP01	25A	A4TP11	20A	A4TP21	15A	4 PolesDT	ON 2-3 5-6 8-9 11-12	OFF	ON 2-1 5-4 8-7 11-10
A4TR01	25A	A4TR11	20A	A4TR21	15A	4 PolesDT	ON 2-3 5-6 8-9 11-12	—	<ON> 2-1 5-4 8-7 11-10
A4TS01	25A	A4TS11	20A	A4TS21	15A	4 PolesDT	<ON> 2-3 5-6 8-9 11-12	OFF	<ON> 2-1 5-4 8-7 11-10
A4TT01	25A	A4TT11	20A	A4TT21	15A	4 PolesDT	ON 2-3 5-6 8-9 11-12	OFF	<ON> 2-1 5-4 8-7 11-10







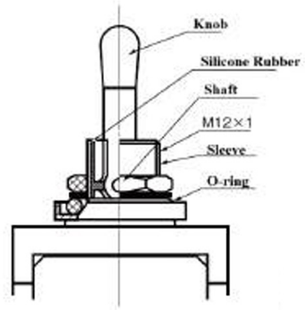
Terminal Diagram

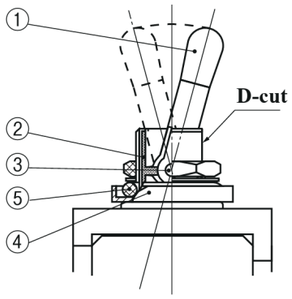


Panel-mounting Splash-proof Toggle

A ☐ T ☐ ☐ ☐ W

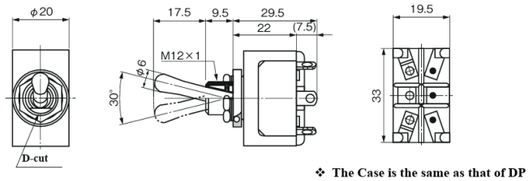
A dual waterproof structure consisting of an O-ring and silicone potting around the internal area of the actuator prevents water from entering the switch interior.





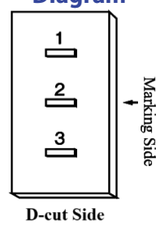
Symbol	Part Name	Materials
①	Knob	Brass Bar
②	Splash-proof Rubber	Silicone Rubber (white)
③	Shaft	SUS
④	Bushing	Brass Bar
⑤	O-ring	NBR

S P

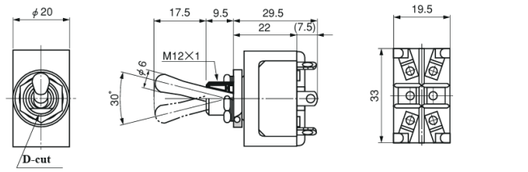


❖ The Case is the same as that of DP

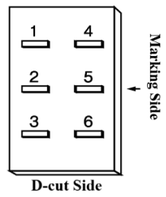
Terminal Diagram



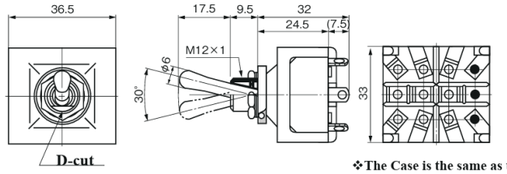
2 P



Terminal Diagram

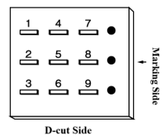


3 P

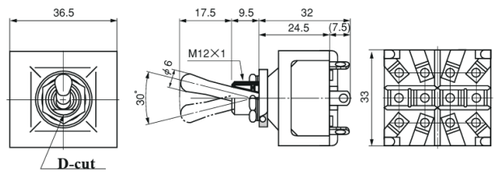


❖The Case is the same as that of 4P

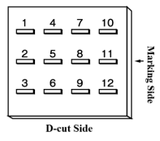
Terminal Diagram



4 P



Terminal Diagram



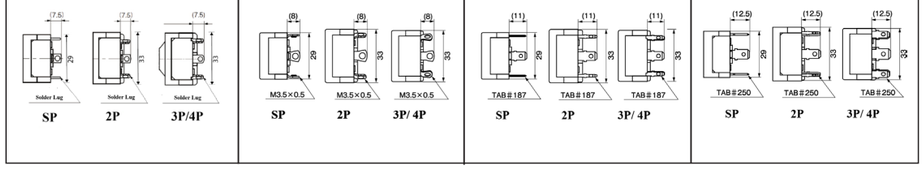
*** For products other than those listed above or for custom items, please contact us.**

Dimensions of Terminals, Mounting Holes, and Mounting Parts

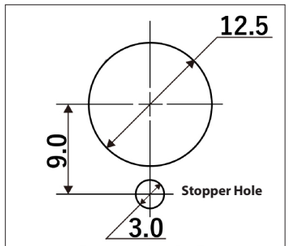
Dimensions of Terminals

A ☐ T ☐ ☐ ■ ☐

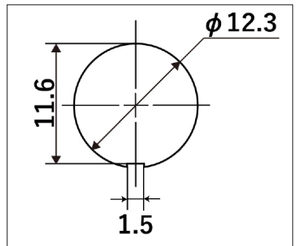
1 Solder Lug	2 Screw Terminal	4 Quick Connect #187	5 Quick Connect #250



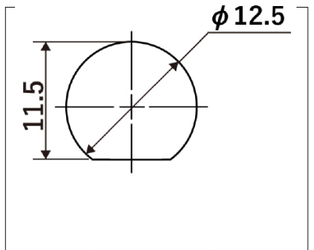
Mounting Hole Dimensions



Common for All Poles
Non Splash-proof Type

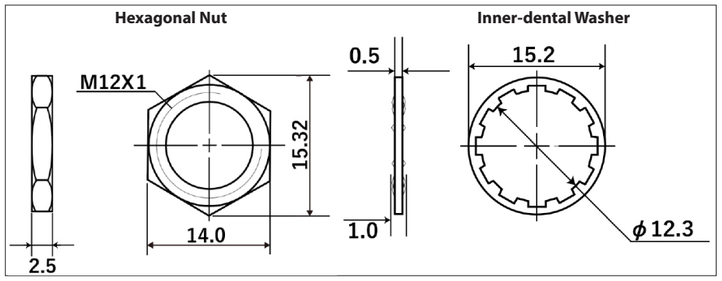


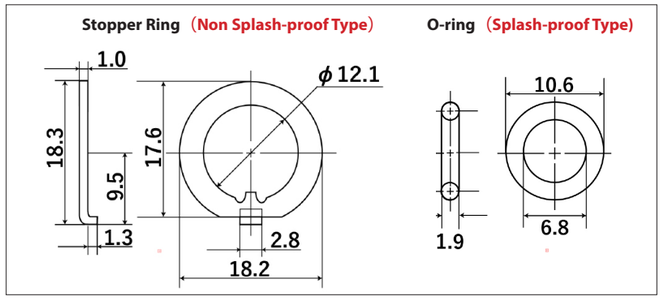
Common for All Poles
Non Splash-proof Type

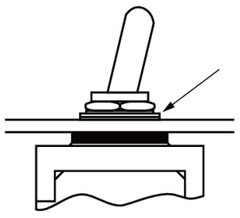


Common for All Poles
Splash-proof

Dimensions of Mounting Parts







*** For splash-proof models, please install the inner-dental washer from the top side of the panel.**
The maximum panel thickness is 3.5 mm.

*** For non-splash-proof models, only the lower nut is pre-installed on the main unit; other accessories are included separately. For splash-proof models, all accessories are pre-installed upon delivery.**

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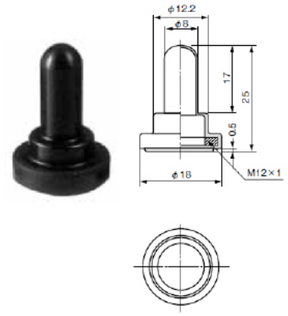
250V/125VAC
25A
20A
15A
Solder Lug
Screw
Quick Connect
SP 2P
3P 4P

Splash-proof Cap、Other Parts

* The splash-proof type offers splash-proof performance on its own, but using it together with the splash-proof cap shown below can further enhance its splash protection.

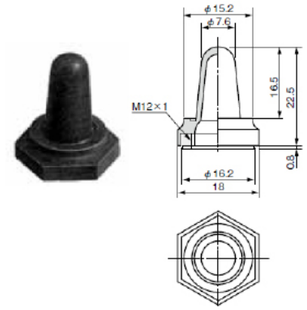
Round Splash-proof Cap

Materials	Color	Part Number
Chloroprene Rubber	Black	6047-1481



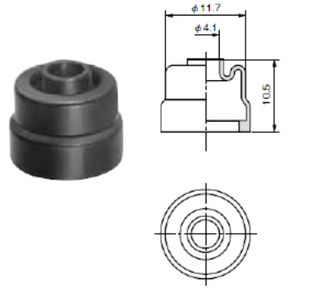
Materials	Color	Part Number
Silicone Rubber	Black	6047-5967
	Red	6047-6414
Chloroprene Rubber	Black	6047-5949
Ethylene-propylene Rubber	Black	6047-6170

Hexagonal Splash-proof Cap



Materials	Color	Part Number
Chloroprene Rubber	Black	6047-0860

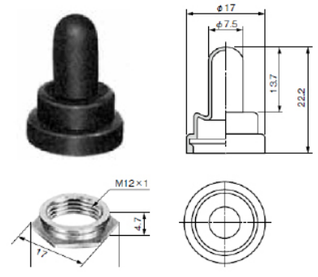
Round Dust-tight Cap



Materials	Color	Part Number
Chloroprene Rubber	Black	7847-8619

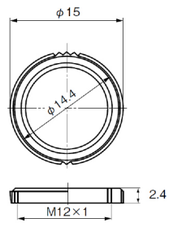
This Cap can be directry attached to the Bushing.
(It can be applied to wth M12Hexagonal Nut.)

Splash-proof Cap • Nut



Materials	Color	Part Number
Chloroprene Rubber	Black	6047-2568

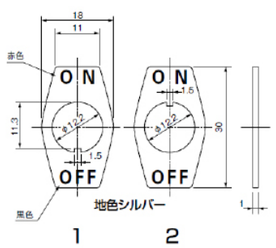
Other Parts



Round Nut

Part Number
9801-0134

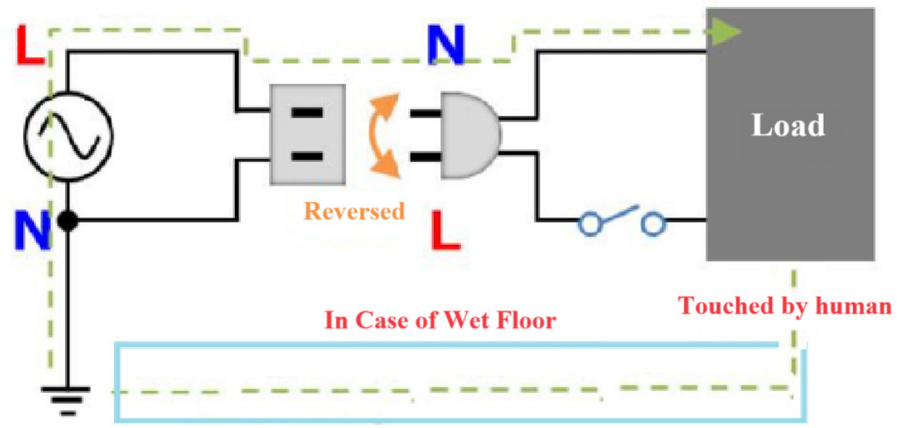
ON • OFF Name Plate (Excl. Splash-proof Type)



	Part Number
1	9804-0135
2	9804-1105

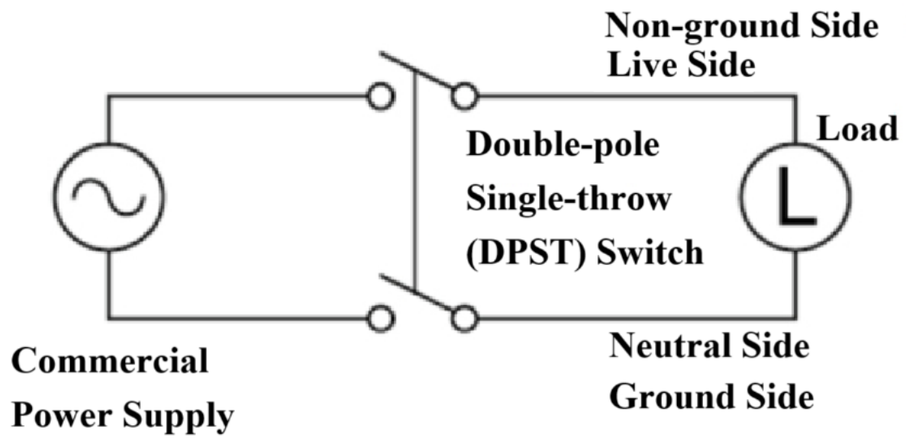
* For products other than those listed above or for custom items, please contact us.

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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Toggle
A Series
250V/125VAC
25A
20A
15A
Solder Lug
Screw
Quick Connect
SP 2P
3P 4P