

Toggle

B

Series

250V/125VAC

10A

6A

Solder Lug

Quick Connect

Terminal

SP 2 P

Outline of the Series

This series offers a compact design with ratings up to 10A, all at an affordable price. Available types include toggle, rocker, push-button, and slide switches.

Features of the Series



1. All standard models use UL94 V-1 certified flame-retardant resin for the case material.
2. The contact structure is designed to minimize bounce, ensuring stable opening and closing.
3. Despite being rated for 10A, all models are compact and cost-effective (compared to our conventional products), while maintaining high performance.
4. Terminal sealing prevents flux from entering the case during soldering.
5. An integrated terminal-contact clinch structure is adopted, ensuring that even if the case becomes deformed due to soldering heat, no electrical failure will occur.

Common Specifications

■ Ratings □ = Type of Terminals Symbol

Symbol Voltage	0 □	1 □	Load	Notes
AC125/250V	10A	6A	Resistive Load	Load only with Resistive, Power Factor=1
DC30V	10A	6A		

* 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."

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

Packaging
Quantity

100 pcs

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

Product Designations

Series Name

B

Operational-
part Type

T

Switch
Functions

A

Current
Capacity

0

Type of
Terminals

1

Operational-part	Symbol
Toggle	T

Current Capacity	Symbol
10A 125/250V AC	0
6A 125/250V AC	1

SwitchFunctions			Symbol	
The Opposite Side	Center	Key Thread Side	SP	DP
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
Quick Connect Terminal #110	3

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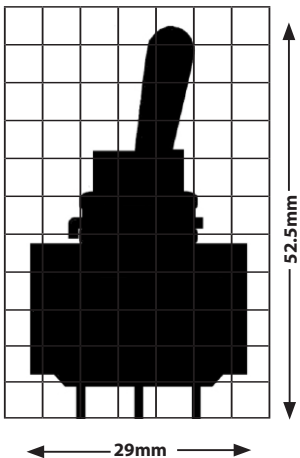
Quick Connect

Terminal

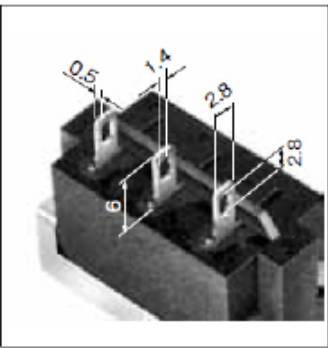
SP 2 P

Examples of Terminal Figures (SP、ON-ON、ON-OFF)

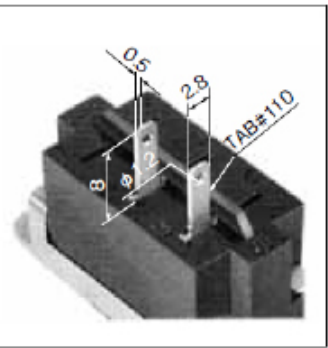
Silhouette (BTD01)



Solder Lug(ON-ON)



Quick Connect #110
(ON-OFF)



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Terminal

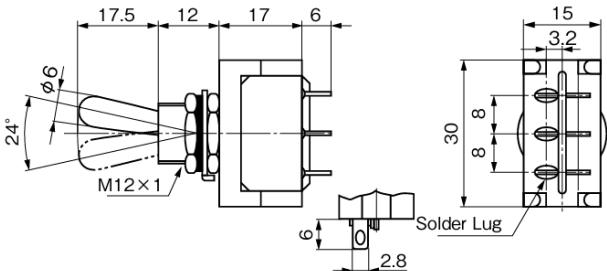
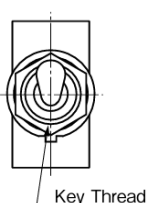
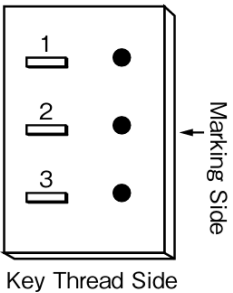
SP 2 P

Switch Names, Functions, Terminal Diagram

S P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> 1/2 Momentary		
BTA01	10A	BTA11	6A	SPST	ON 2-3	—	OFF
BTD01	10A	BTD11	6A	SPDT	ON 2-3	—	ON 2-1
BTE01	10A	BTE11	6A	SPDT	ON 2-3	OFF	ON 2-1
BTF01	10A	BTF11	6A	SPDT	ON 2-3	—	<ON> 2-1
BTG01	10A	BTG11	6A	SPDT	<ON> 2-3	OFF	<ON> 2-1

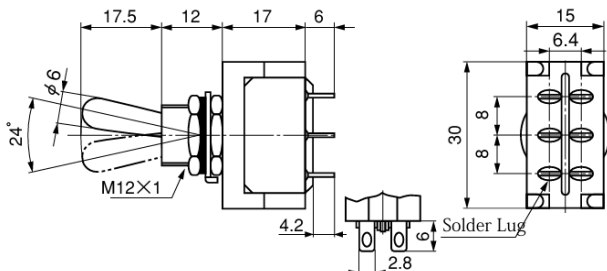
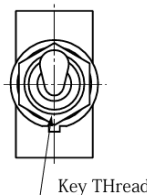
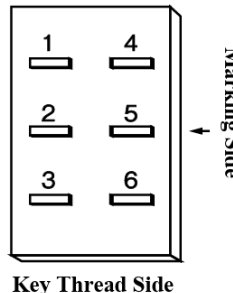
Terminal Diagram



D P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> 1/2 Momentary		
BTK01	10A	BTK11	6A	DPST	ON 2-3 5-6	—	OFF
BTN01	10A	BTN11	6A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4
BTP01	10A	BTP11	6A	DPDT	ON 2-3 5-6	OFF	ON 2-1 5-4
BTR01	10A	BTR11	6A	DPDT	ON 2-3 5-6	—	<ON> 2-1 5-4
BTS01	10A	BTS11	6A	DPDT	<ON> 2-3 5-6	OFF	<ON> 2-1 5-4

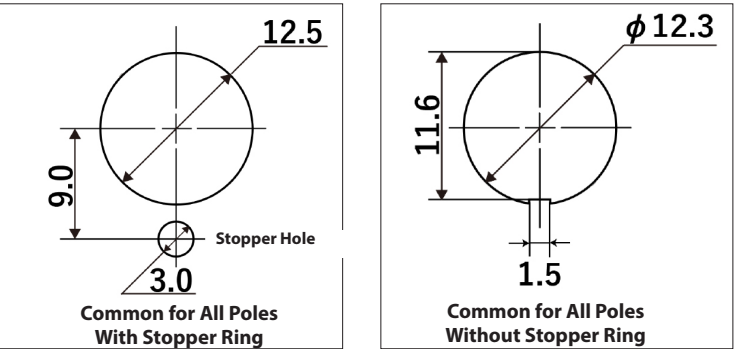
Terminal Diagram



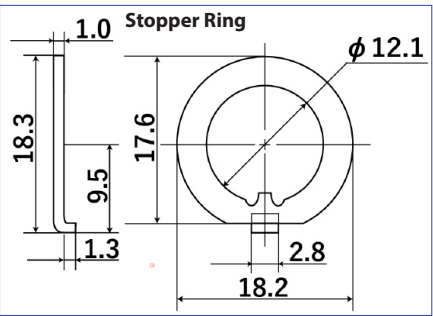
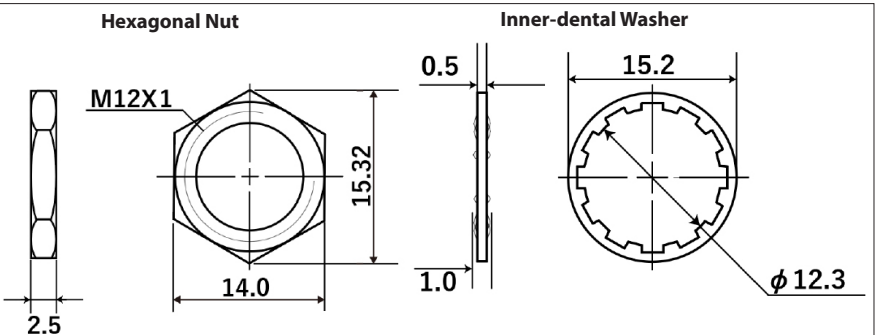
* For products other than those listed above or for custom items, please contact us.

Mounting Hole Dimensions, Mounting Parts Dimentions

Mounting Hole Dimensions



Mounting Parts Dimensions



* Regarding the mounting parts, only the lower nut is pre-installed on the main unit; other parts are included separately.

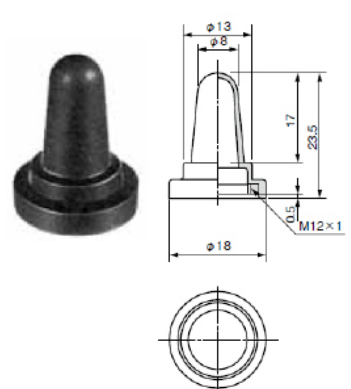
* For products other than those listed above or for custom items, please contact us.

Splash-proof Cap, Other Parts

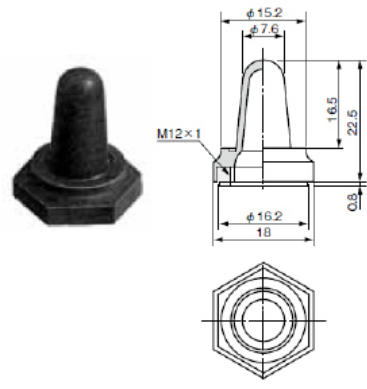
Round Splash-proof Cap

Hexagonal Splash-proof Cap

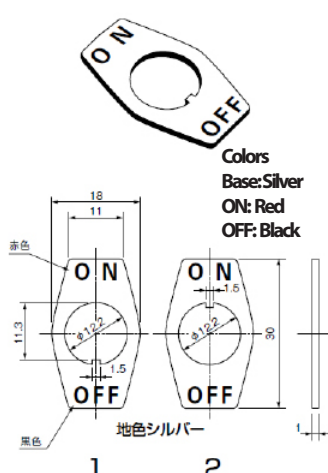
ON • OFF Name Plate



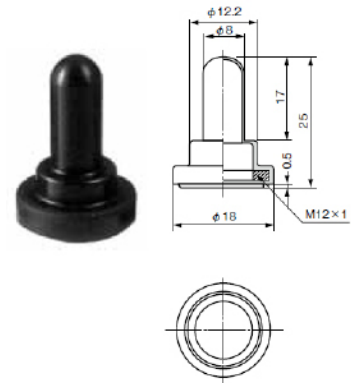
Materials	Color	Part Number
Chloroprene Rubber	Black	6047-1481



Materials	Color	Part Number
Chloroprene Rubber	Black	6047-0860

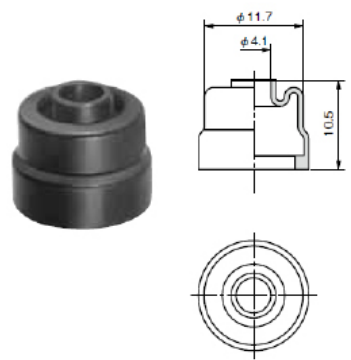


	Part Number
1	9804-0135
2	9804-1105



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

Round Dust-tight Cap



Materials	Color	Part Number
Chloroprene Rubber	Black	7847-8619

This Cap can be directly attached to the Bushing.
(It can be applied to with M12 Hexagonal Nut.)

Compliance with the European RoHS Directive

All DIP switches, control switches, connectors, and terminal blocks manufactured by OTAX with the following RoHS Directive:

Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

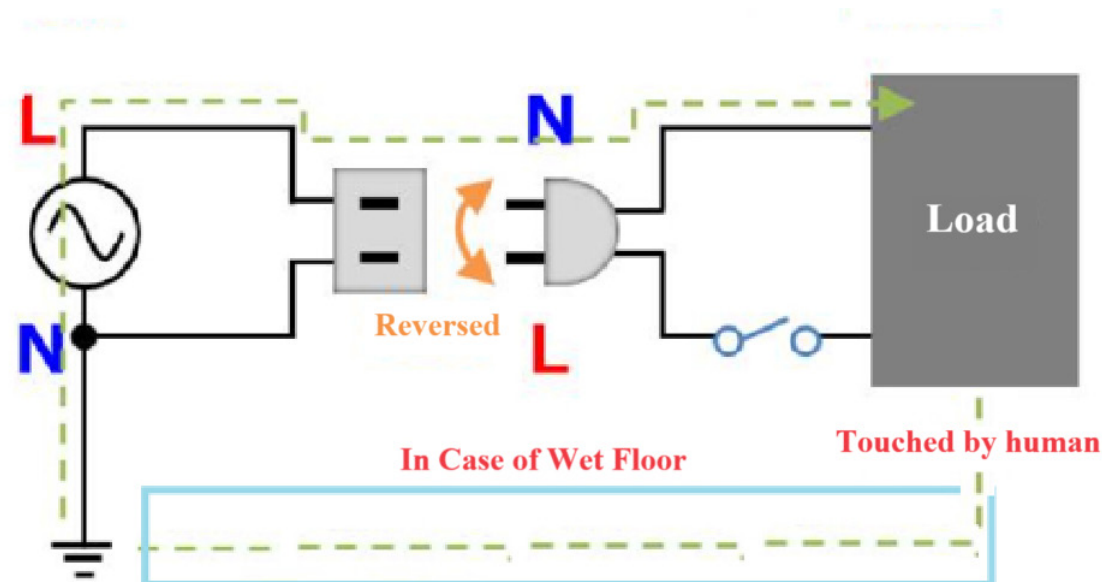
Our products do not contain any of the ten specified hazardous substances (except for exempted applications):

Lead (Pb) Mercury (Hg) Cadmium (Cd) Hexavalent chromium (Cr⁶⁺) Polybrominated biphenyls (PBB) Polybrominated diphenyl ethers (PBDE) Di(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)

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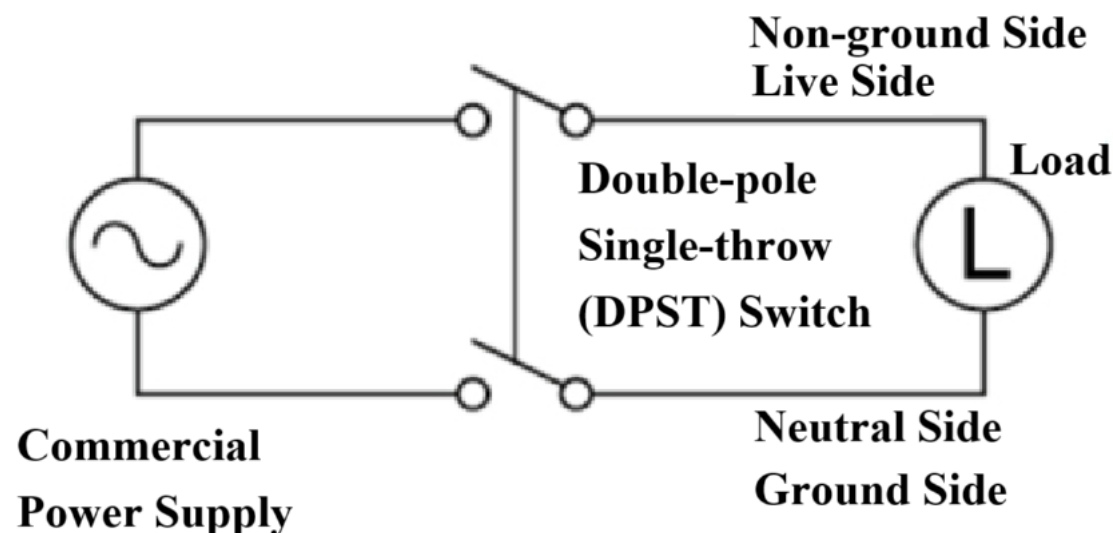
Switch Tips

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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