Toggle

B **Series**

250V/125VAC 10A 6A

Solder Lug Quick Connect **Terminal**

SP 2P

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
- 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, Pow	
DC30V	10A	6A	Resistive Load	Factor=1	

* 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°C∼ +70°C		
Storage Temperature Range	-20°C∼ +70°C		
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

B

Series Name

part Type

Operational-

Operational-part Symbol

Toggle

Functions

Switch

Capacity

Terminals

Current

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

SwitchFunctions			Symbol	
The Opposite Side	Center	Key Thread Side	SP	DP
ON	-	OFF	Α	K
ON	-	ON	D	N
ON	OFF	ON	E	Р
ON	-	<on></on>	F	R
<on></on>	OFF	<on></on>	G	S

Type of	Symbol	
Terminals		
Solder Lug	1	
Quick Connect		
Terminal #110	3	

Type of

<> = Momentary

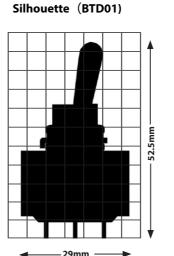
Toggle

250V/125VAC 10A 6A

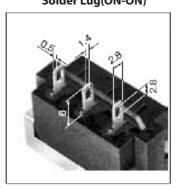
Solder Lug Quick Connect Terminal

SP 2P

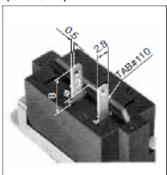
Examples of Terminal Figures (SP, ON-ON, ON-OFF)



Solder Lug(ON-ON)



Quick Connect #110 (ON-OFF)



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Toggle

Switch Names, Functions, Terminal Diagram

B Series

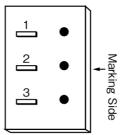
250V/125VAC 10A 6A

Solder Lug **Quick Connect Terminal**

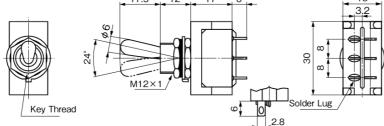
SP 2P

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

Terminal Diagram

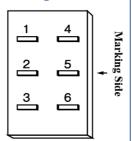


Key Thread Side



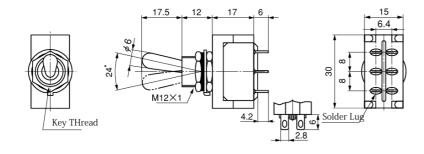
Product Name	Resistive Load	Product Name	Resistive Load	Circuit	Functions <> はMomentary			
	AC125/250V DC30V		AC125/250V DC30V			-[
BTK01	10A	BTK11	6A	DPST	ON 2-3 5-6	1	OFF	
BTN01	10A	BTN11	6A	DPDT	ON 2-3 5-6	_	ON 2-1 5-4	
BTP01	10A	BTP11	6A	DPDT	ON 2-3 5-6	OFF	ON 2-1 5-4	
BTR01	10A	BTR11	6A	DPDT	ON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



Key Thread Side

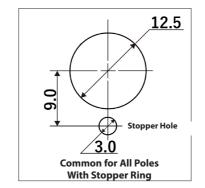


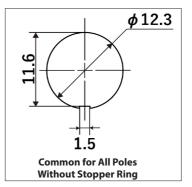


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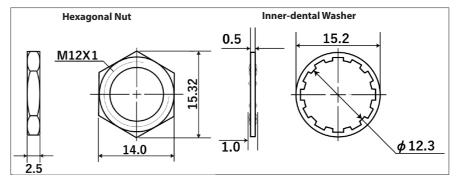
Mounting Hole Dimensions, Mounting Parts Dimentions

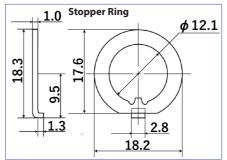
■ Mounting Hole Dimensions





■ Mounting Parts Dimensitions





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

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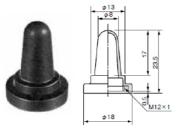
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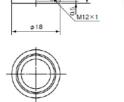
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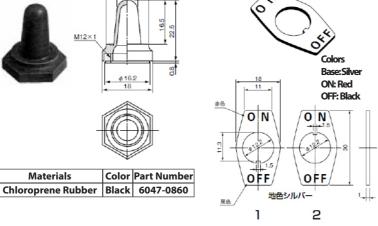
Splash-proof Cap, Other Parts

Hexagonal Splash-proof Cap ON • OFF Name Plate **Round Splash-proof Cap**







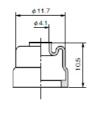


Part Number 9804-0135

9804-1105









Round Dust-tight Cap

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

Materials	Color	Part	
Materiais	Color	Number	
Chloroprene Rubber	Black	7847-8619	
This Cap can be directry at	tached	to the Bushing.	
(It can be applied to wth I	/112Hav	agonal 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).

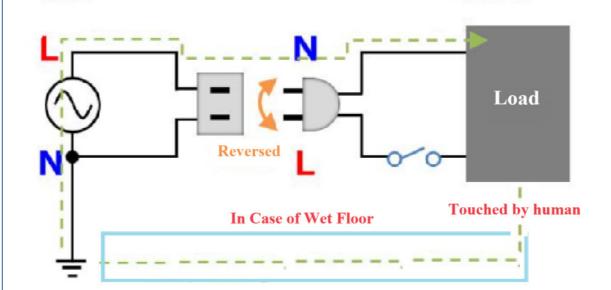
Our products do not contain any of the ten specified hazardous substances (except for exempted applications):

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.

Non-ground Side Live Side Load **Double-pole** Single-throw (DPST) Switch **Neutral Side** Commercial **Ground Side Power Supply**

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