

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°C ~ +70°C
Storage Temperature Range	-20°C ~ +70°C
Hand-soldering Conditions	350 ± 3°C within 3 sec.

Packaging Quantity
100 pcs

Product Designations

Series Name: **B**

Operational-part Type: **P**

Switch Functions: **A**

Current Capacity: **0**

Type of Terminals: **1**

Operational-part	Symbol
One-pushbutton	P
Two-pushbutton	B

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

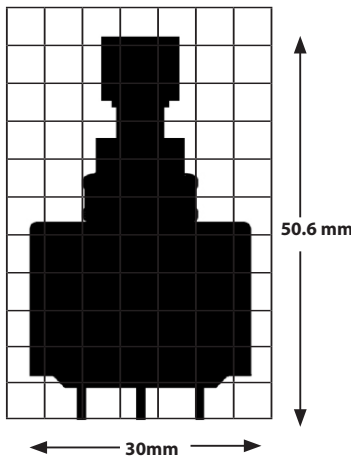
SwitchFunctions			Symbol	
The Opposite Side	Center	Key Thread Side	SP	DP
ON	-	OFF	A	K
ON	-	ON	D	N
ON	OFF	ON	E	P
ON	-	<ON>	F	R

<> = Momentary

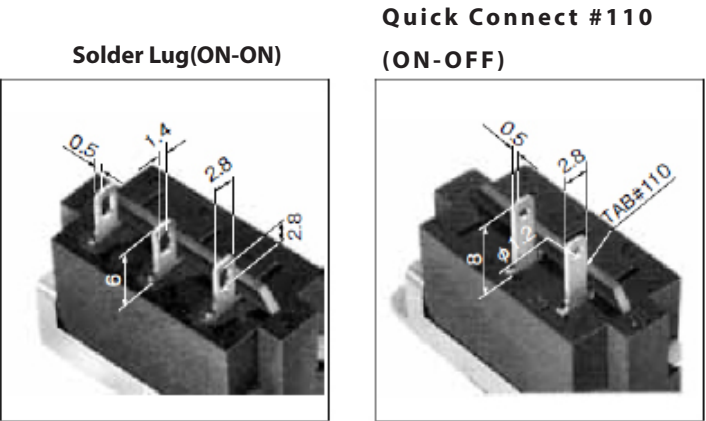
※ Switch Functions F and R are for One-pushbutton only, while E and P are for Two-pushbutton only.

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

Silhouette (BPD01)



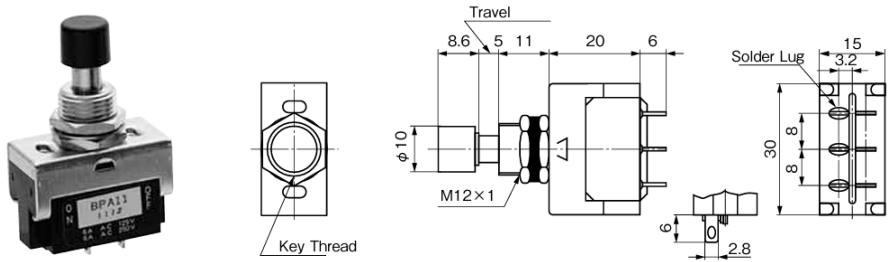
Examples of Terminal Figures (SP, ON-ON, ON-OFF)



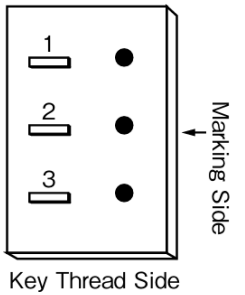
Switch Names, Functions, Terminal Diagram

S P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
					Alternate		
BPA01	10A	BPA11	6A	SPST	ON 2-3	—	OFF
BPD01	10A	BPD11	6A	SPDT	ON 2-3	—	ON 2-1
Product Name		Product Name		Circuit	Initial Position	When the Button is pushed	
BPF01	10A	BPF11	6A	SPDT	ON 2-3	<ON> 2-1	

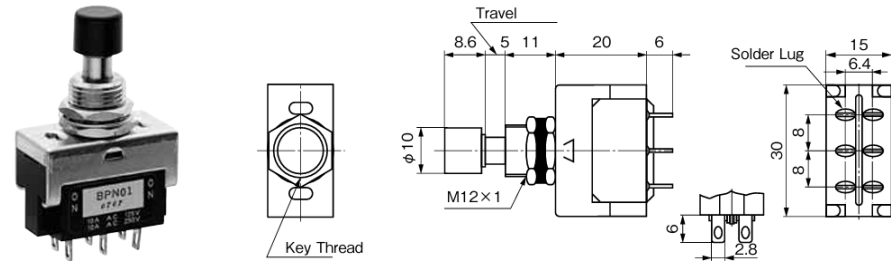


Terminal Diagram

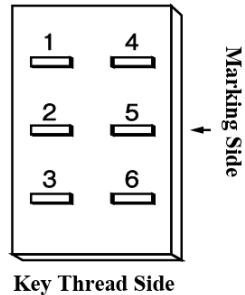


D P

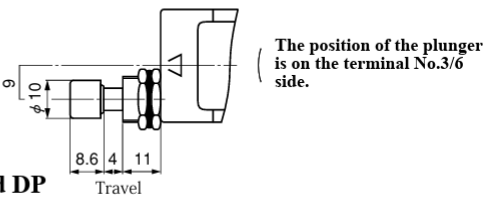
Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
					Alternate		
BPK01	10A	BPK11	6A	DPST	ON 2-3 5-6	—	OFF
BPN01	10A	BPN11	6A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4
Product Name		Product Name		Circuit	Initial Position	When the Button is pushed	
BPR01	10A	BPR11	6A	DPDT	ON 2-3 5-6	<ON> 2-1 5-4	



Terminal Diagram



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

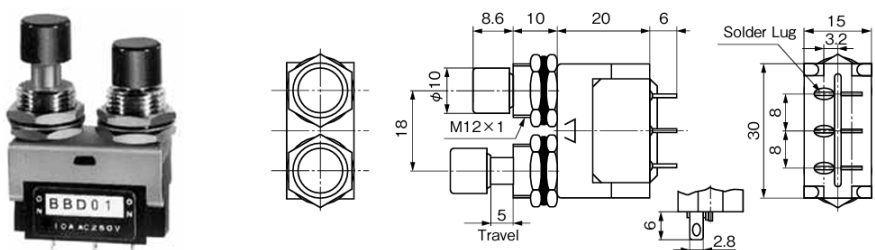


Both for SP and DP

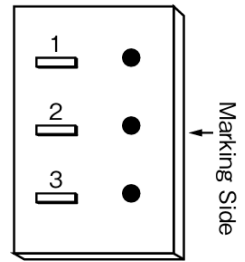
* For products other than those listed above or for custom items, please contact us.

S P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
BBA01	10A	BBA11	6A	SPST	ON 2-3	—	OFF
BBD01	10A	BBD11	6A	SPDT	ON 2-3	—	ON 2-1
BBE01	10A	BBE11	6A	SPDT	ON 2-3	OFF	<ON> 2-1

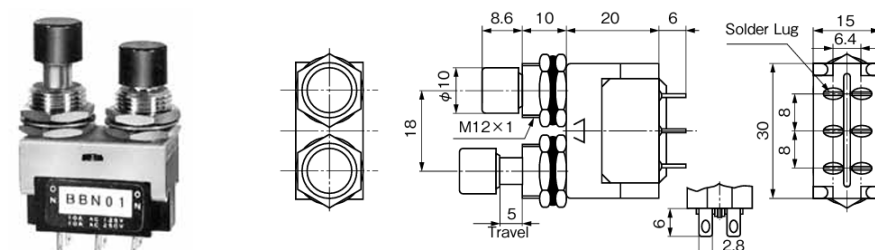


Terminal Diagram

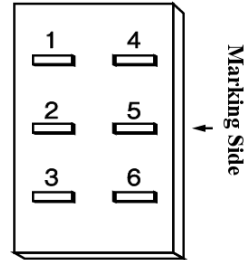


D P

Product Name	Resistive Load AC125/250V DC30V	Product Name	Resistive Load AC125/250V DC30V	Circuit	Functions <> = Momentary		
BBK01	10A	BBK11	6A	DPST	ON 2-3 5-6	—	OFF
BBN01	10A	BBN11	6A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4
BBP01	10A	BBP11	6A	DPDT	ON 2-3 5-6	OFF	ON 2-1 5-4



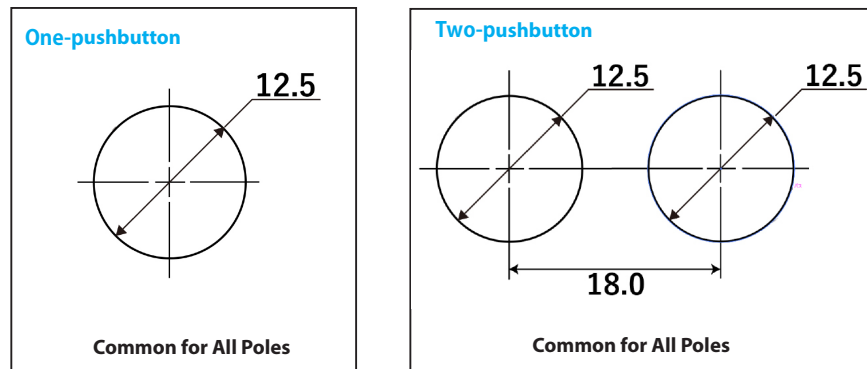
Terminal Diagram



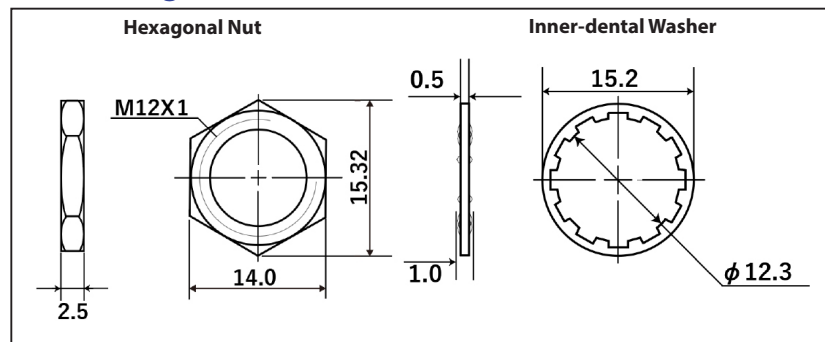
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Mounting Hole Dimensions, Mounting Parts Dimensions

■ 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.

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 (Cr^{6+}) Polybrominated biphenyls (PBB)

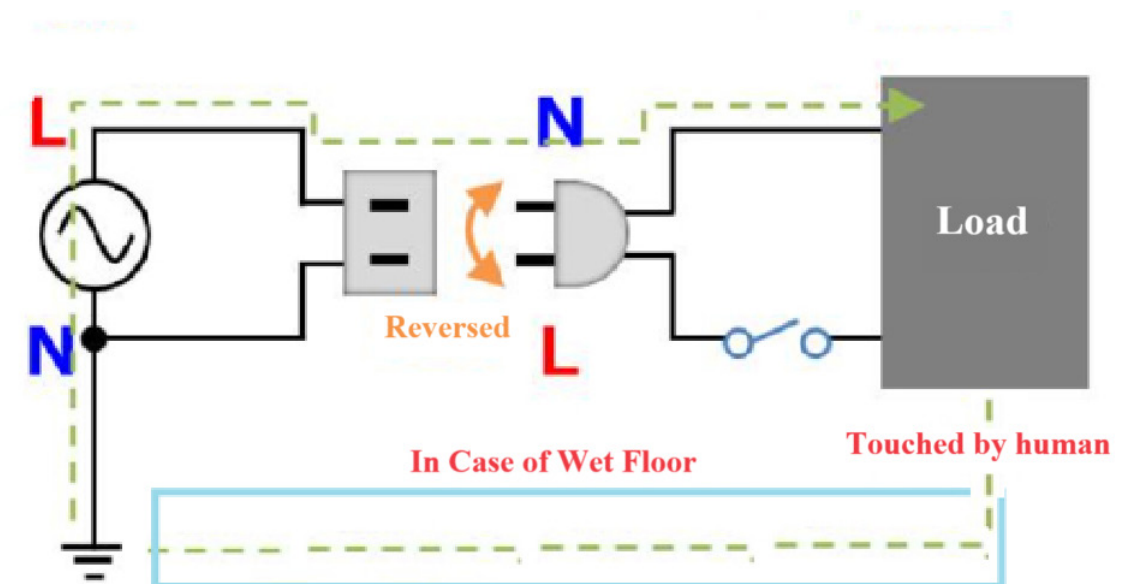
Polybrominated diphenyl ethers (PBDE) Di(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP)

Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)

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Switch Tips

■ Simultaneous Switching of 2-Pole Power Switch

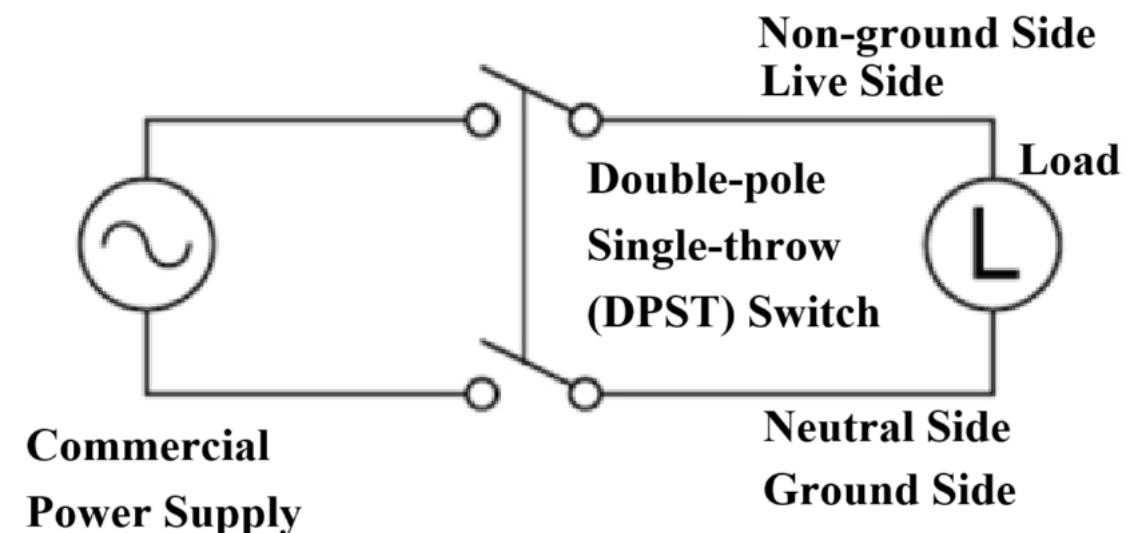


Did you know that even standard 100V AC power plugs have a proper orientation?

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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