Rocker

VZ Series

250V/125VAC 10A

Solder Lug PCB Terminal Quick Connect Terminal

SP 2P

cUL VDE

Outline of the Series

These are 10A-rated dust-tight miniature snap-in rocker switches.

Features of the Series

1. Snap-in mounting allows for quick and easy installation.
2. The compact design features a minimum panel cutout size of 19.2 × 12.9 mm, identical to the V series.
3. Provides a crisp, tactile switching feel with a distinct click.
4. Dustproof type with an O-ring that prevents debris from entering the contact area.
5. Certified by cUL and VDE.

Common Specifications

■ Ratings

Voltage	Ratings	Load	Note
AC125V AC250V	10A	Resistive Load	Load only with Resistive, Power 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.

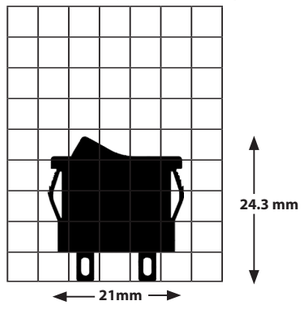
For more details, please refer to "Useful Advices and Precautions on Usage of Operational Switches."

■ Specifications of Materials

Part Name	Materials	Finish
Button	PA66	Black
Frame	PA66	Black
Case	PBT(PPS)	Black
Movable Plate (Movable Contact)	Copper Alloy	Contact:Silver Alloy
Fixed Plate (Fixed Contact)	Copper Alloy	Contact:Silver Alloy
Common Terminals	Copper Alloy	—

Packaging Quantity
300 pcs

Silhouette (VZ22002200)



Contact Resistance	20 mΩ Max. (DC2 ～ 4V 1A) (Initial value)
Withstanding Voltage	AC1,500V 1 Minute
Insulating Resistance	1,000MΩ Min. (DC500V)
Electrical Life	10,000 times
Operating Force	DP：14.7N MAX SP：9.8N MAX
Operating Temperature Range	-25℃～ +85℃
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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Product Designations

Series Name	Poles	Switch Functions	Current Capacity	(reserved)	Type of Terminals	Operational-part Indication	Body Color	Special Parts
V	Z	2	2	0	0	2	2	0	0

Poles	Symbol
SP	1
DP	2

Switch Functions	Symbol
ON – OFF	2

Current Capacity	Symbol
10A 125/250V AC	0

Operational-part Indication	Symbol
Side I ○	0
White Dot	1
Top ○ I	2
Top ○ –	3
None	4

Special Parts	Symbol
Standard	0
Solder Lug (SP2-3)	2
Solder Lug (SP5-6)	5

Terminal	Symbol
DP PC Terminal	1
Solder Lug	2
Quick Connect Terminal#187 (DP)	3
PCB Terminal (Straight, SP2-3)	C
PCB Terminal (Straight, SP5-6)	D
Quick Connect Terminal#187 (SP2-3)	G
Quick Connect Terminal#187 (SP5-6)	H

Note: For symbol "0", the current ON/OFF status is indicated on the side of the actuator. For symbols 2 and 3, the marking indicates the ON/OFF status when that side is pressed. ("I" or "-" indicates ON, and "○" indicates OFF.)

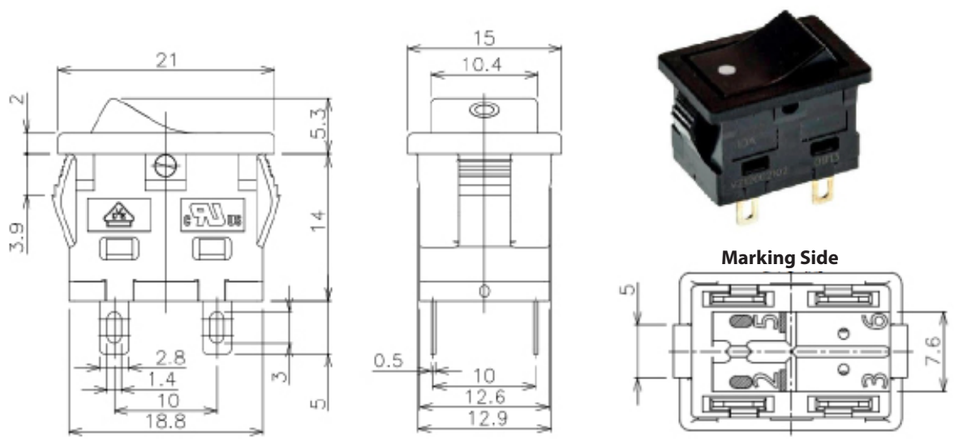
Body Color	Symbol
Black	0

Switch Names, Functions, Dimensions

■ Solder Lug

D P

Product Name	Resistive Load	Circuit	Functions		
	AC125/250V				
VZ22002 □00	10A	DPST	ON 2-3 5-6	—	OFF



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250V/125VAC 10A

Solder Lug
PCB Terminal
Quick Connect Terminal

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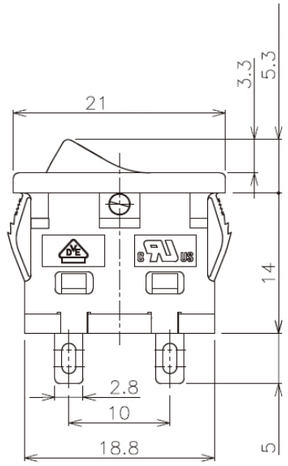
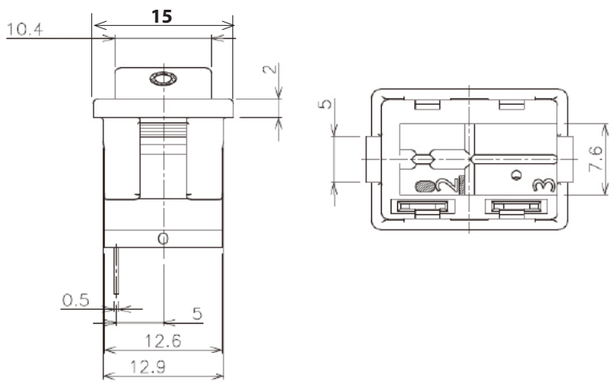
cUL
VDE

S P

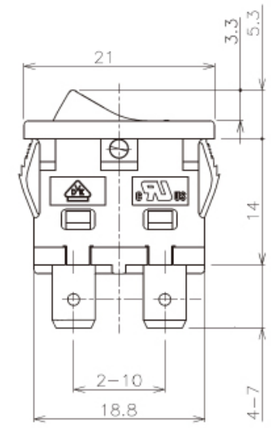
Product Name	Resistive Load	Circuit	Functions		
	AC125/250V				
VZ12002 □02	10A	SPST	ON 2-3	—	OFF
VZ12002 □05	10A	SPST	ON 5-6	—	OFF



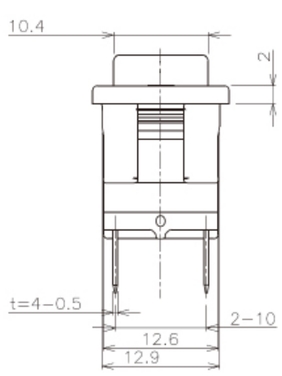
VZ12002202（Terminal 2-3）



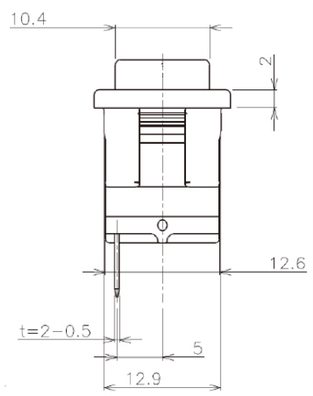
■ Quick Connect Terminal（#187）

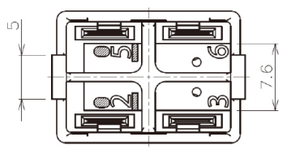


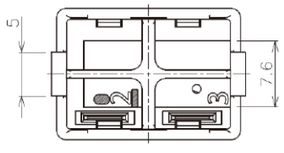
VZ22003400（DP）



VZ1200G400（SP2-3）







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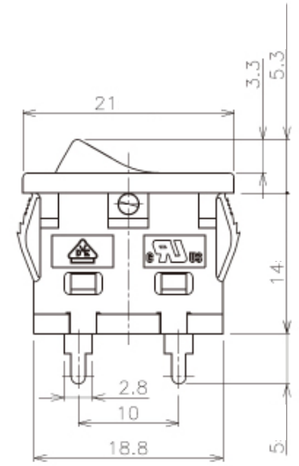
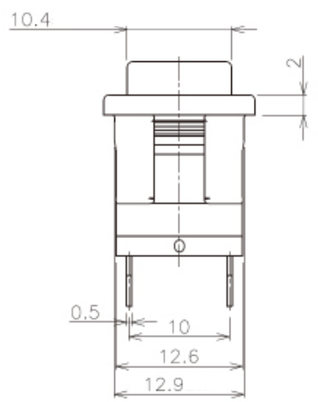
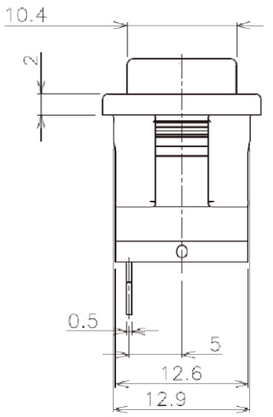
■ PCB Terminal

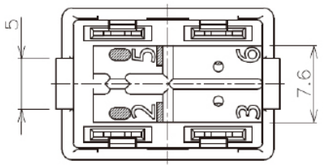


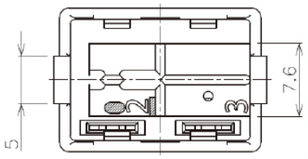
VZ22001400（DP）



VZ1200C400（SP2-3）

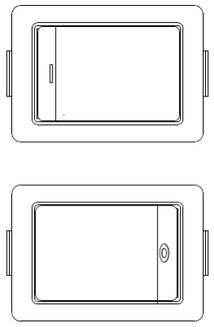




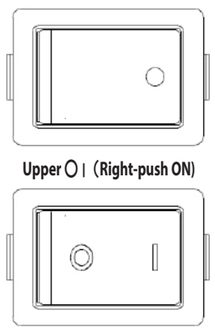


■ Operational-part Indication

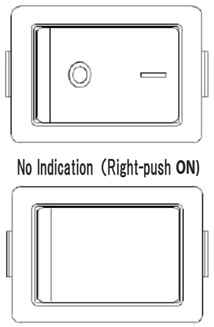
Side | ○（Uper：ON, Below：OFF）



White Dot（Right-push ON）



Upper ○—（Right-push ON）



Upper ○ |（Right-push ON）

No Indication（Right-push ON）

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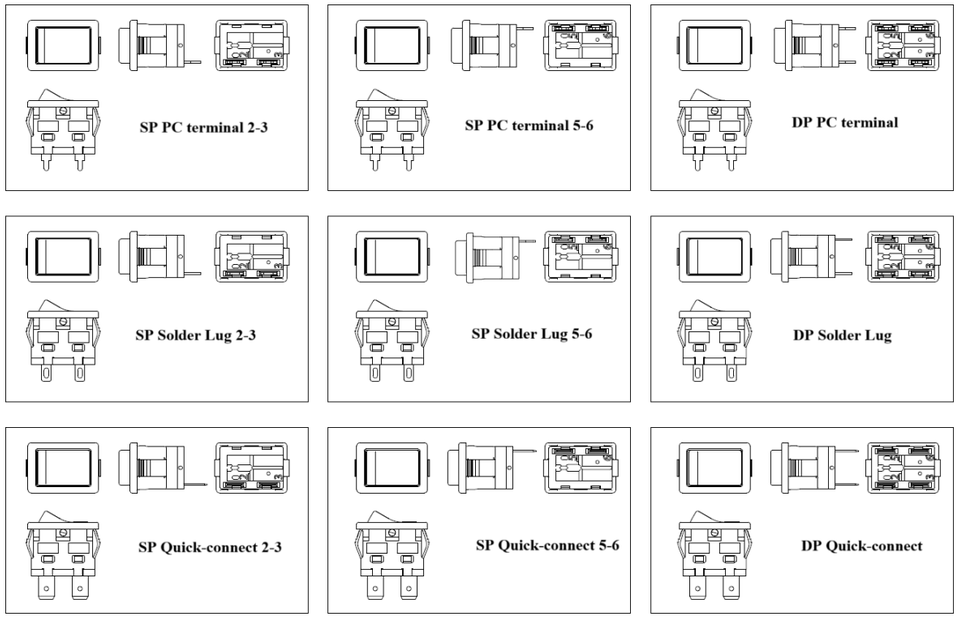
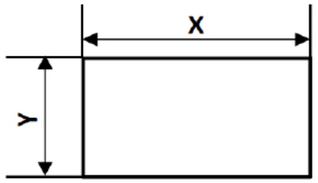
All available Terminals & Indications



Mounting Hole Dimensions



Panel Thickness	X Dimension	Y Dimension
0.75≦ t <1.25	$19.2^{0}_{-0.1}$	$12.9^{+0.1}_{0}$
1.25≦ t <2.00	$19.4^{0}_{-0.1}$	$12.9^{+0.1}_{0}$

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)

Cautions on Handling

1. Snap-in mounting should be performed only once.

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Switch Tips

Cautions on Capacitive Load

Many modern electronic devices use switching power supplies. Inside these power supplies, a large capacitor is typically placed immediately after the rectifier circuit, which presents a capacitive load—one of the most demanding types of loads from the perspective of a switch.
Similarly, the power supplies used in the increasingly popular LED lighting systems also often present a capacitive load.

For this reason, please pay close attention to inrush current during switch operation and select a switch with an appropriate current rating.
If large inrush currents are expected, we recommend using switching power supplies with built-in inrush current limiting circuits, or referring to the "Useful Advices and Precautions on Usage of Operational Switches" for various methods of limiting inrush current.

If switches are used under high inrush current conditions without any protective measures, there is a risk that the switch contacts may weld together, potentially leading to serious failure or accidents.

Capacitive Load 	Since capacitors draw large currents when first energized, high-level inrush currents are generated.	10–1000 times the steady-state current in microseconds to milliseconds	Switching power supplies (capacitors in the primary power circuit), LED lighting	(Measure the actual inrush current and select an appropriately rated switch. Consider an inrush current reduction circuit.)

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