

Outline of the Series

This snap-in rocker switch is ideal for power switching applications, supporting ratings up to 20A and also available in illuminated versions with neon lamps.

Features of the Series

1. Snap-in mounting allows for quick and easy installation.
2. Illuminated types are available with neon lamps and three actuator color options.
3. Despite its slim profile, it supports ratings up to 20A.
4. The LL □ 55 type is UL, cUL, and TÜV certified.



Common Specifications

■ Ratings

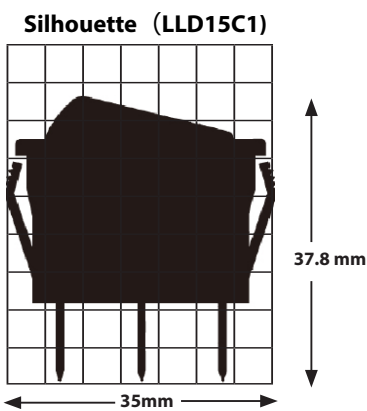
Symbol Voltage	Non-illuminated			Neon Lamp Illuminated				Load	Notes
	15	35	55	15	25	35	45		
AC125V	10A	16A	20A	10A		16A		Resistive Load	Load only with Resistive, Power Factor=1
AC250V	10A	16A	20A		10A		16A		

* 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	100 pcs
DP	50 pcs

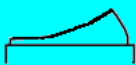
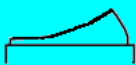
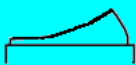
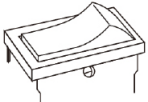


Contact Resistance	20 mΩ Max. (DC2V 1A) (Initial value)
Withstanding Voltage	AC1,500V 1 Minute
Insulating Resistance	1,000MΩ Min. (DC500V)
Electrical Life	10,000 times
Operating Temperature Range	-20°C ~ +70°C
Storage Temperature Range	-20°C ~ +70°C
Hand-soldering Conditions	350 ± 3°C within 3 sec.
Life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

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

Product Designations

■ Non-illuminated Type

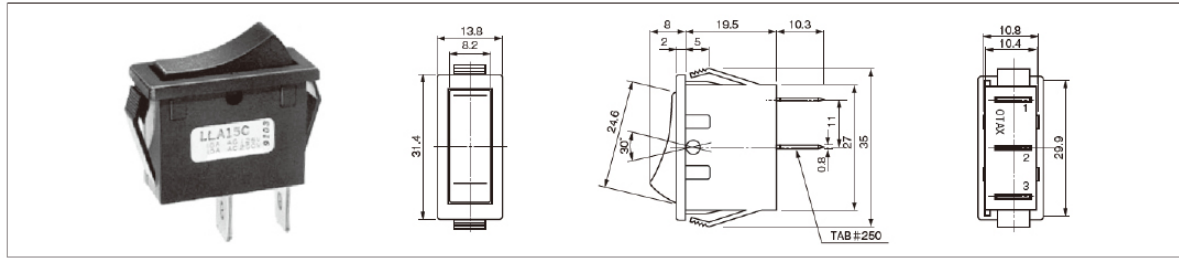
■ Non-illuminated Type																																			
Series Name	Operational-part Type	Switch Functions	Current Capacity	Type of Terminals	Shape of Operational-part	Color of Operational-part	Operational-part Indication																												
L	L	A	1	5	C	1	1																												
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Switch Names, Functions, Terminal Diagram

■ Non-illuminated Type

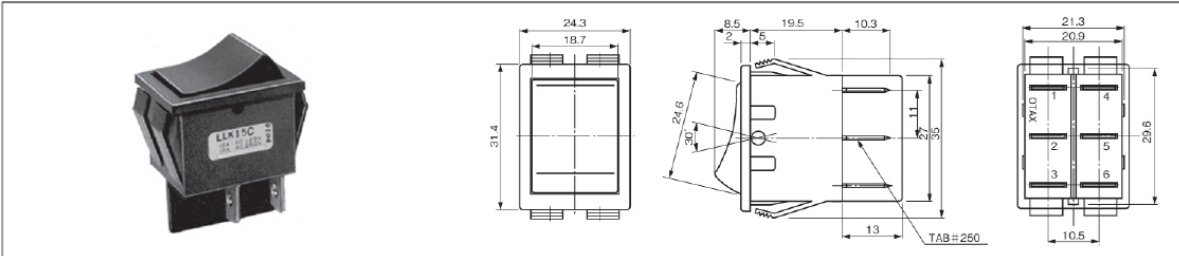
S P

Product Name	Resistive Load	Circuit	Functions		
	AC125/250V				
LLA15C □	10A	SPST	ON 2-3	—	OFF
LLD15C □	10A	SPDT	ON 2-3	—	ON 2-1
LLA35C □	16A	SPST	ON 2-3	—	OFF
LLD35C □	16A	SPDT	ON 2-3	—	ON 2-1
LLA55C □	20A	SPST	ON 2-3	—	OFF
LLD55C □	20A	SPDT	ON 2-3	—	ON 2-1



2 Poles

Product Name	Resistive Load	Circuit	Functions		
	AC125/250V				
LLK15 □□	10A	DPST	ON 2-3 5-6	—	OFF
LLN15 □□	10A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4
LLK35 □□	16A	DPST	ON 2-3 5-6	—	OFF
LLN35 □□	16A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4
LLK55 □□	20A	DPST	ON 2-3 5-6	—	OFF
LLN55 □□	20A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4



Mounting Hole Dimensions (Both for Non-illuminated and Illuminated)

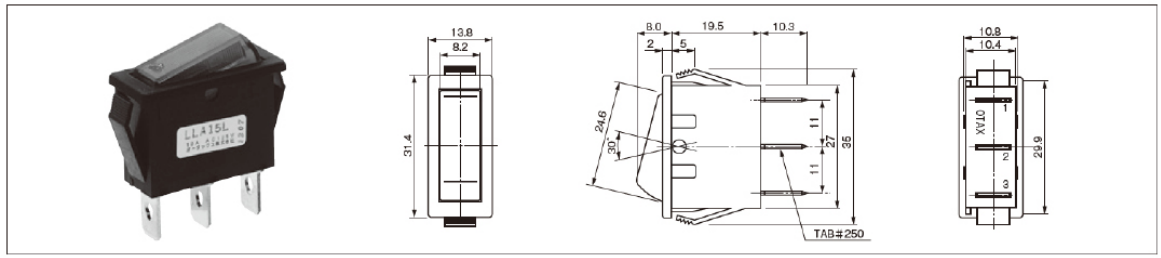
	Panel Thickness	X		Y
		X	Y	
SP	1.0~3.0	10.9 ^{+0.1} ₀	30.0 ^{+0.1} ₀	
DP	1.0~3.0	21.4 ^{+0.1} ₀	30.0 ^{+0.1} ₀	

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■ Neon Lamp Illuminated Type

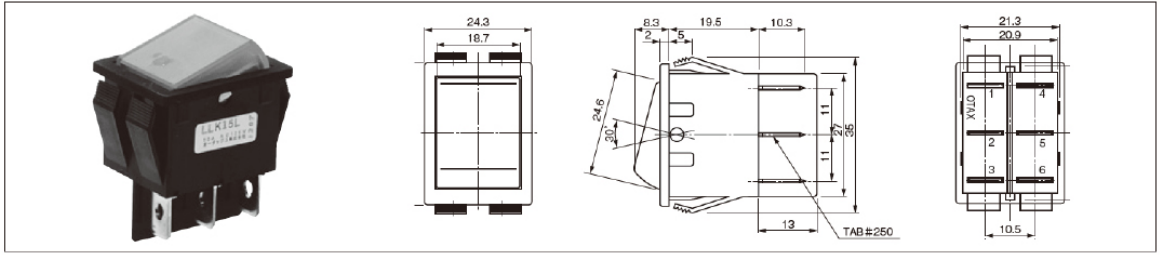
S P

Product Name	Resistive Load	Circuit	Functions		
	AC125V/10A				
LLA15L □	AC125V/10A	SPST	ON 2-3	—	OFF
LLA25L □	AC250V/10A	SPST	ON 2-3	—	OFF
LLA35L □	AC125V/16A	SPST	ON 2-3	—	OFF
LLA45L □	AC250V/16A	SPST	ON 2-3	—	OFF

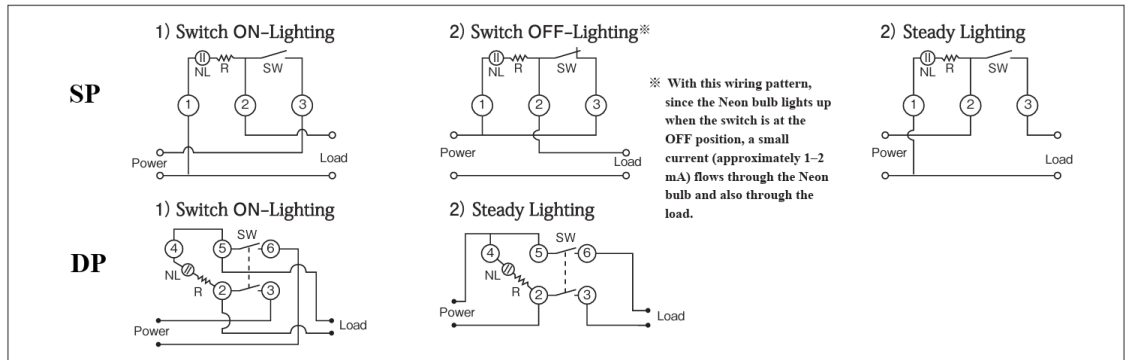


D P

Product Name	Resistive Load	Circuit	Functions		
	AC125V/10A				
LLK15L □	AC125V/10A	DPST	ON 2-3 5-6	—	OFF
LLK25L □	AC250V/10A	DPST	ON 2-3 5-6	—	OFF
LLK35L □	AC125V/16A	DPST	ON 2-3 5-6	—	OFF
LLK45L □	AC250V/16A	DPST	ON 2-3 5-6	—	OFF



Wiring Diagrams



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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)

Cautions on Handling

- 1. Snap-in mounting should be performed only once.
- 2. Neon lamps may misfire due to electromagnetic interference, so please take care with their placement.

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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