Outline of the Series

This is a combination snap-in rocker switch rated for 10A, integrated with a fuse holder. Illuminated versions with neon lamps are also available.

Features of the Series

1. The built-in fuse holder allows for space-saving around the power circuit.
2. Snap-in mounting enables quick and easy installation.
3. Illuminated versions are available, combining a neon lamp with three actuator color options.

Common Specifications

■ Ratings

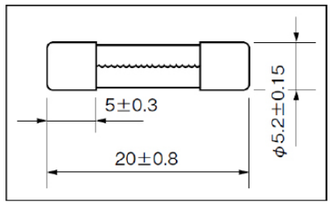
Voltage \ Symbol	15	25	Load	Notes
AC125V	10A	—	Resistive Load	Load only with Resistive, Power Factor=1
AC250V	—	10A		

* 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."

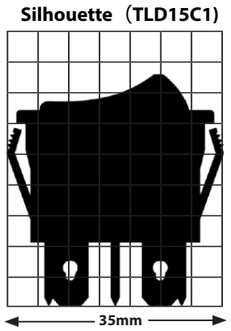
Packaging Quantity
50 pcs

■ About Fuse



- Nominal dimensions: Φ5.2 × 20 mm
  Terminal type: Cartridge (cap type)
  Rated current: Max. 10A
- It is recommended to use the fuse at no more than 60–70% of its rated current.
- The appropriate fuse varies depending on the current used; please select a suitable fuse accordingly.
- *The fuse is not included at the time of delivery.*

Silhouette（TLD15C1）



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 Temperature Range	-20℃～ +70℃
Storage Temperature Range	-20℃～ +70℃
Hand-soldering Conditions	350 ± 3℃ within 3 sec.
Life of Neon Lamp	20,000 hours

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

Rocker
T Series
250VAC 10A 125VAC 10A
Quick Connect Terminal #250
SP 2P

Product Designations

■ Non-illuminated Type

Series Name	Operational-part Type	Switch Functions	Current Capacity	Type of Terminals	Shape of Operational-part	Color of Operational-part
T	L	A	1	5	C	1

Operational-part	Symbol
Snap-in Rocker	L

Current Capacity	Symbol
10A 125V AC	1
10A 250V AC	2

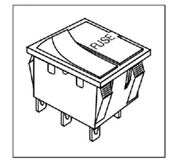
Shape of Operational-part	Symbol
Curved Shape	C

SwitchFunctions			Symbol	
Left Push	Center	Right Push	SP	DP
ON	-	OFF	A	K
ON	-	ON	D	N

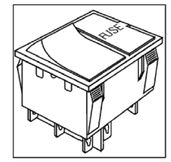
Type of Terminals	Symbol
Quick Connect #250	5

Color of Operational-part	Symbol
Black	1
Red	2

SP



DP



■ Neon Lamp Illuminated Type

Series Name	Operational-part Type	Switch Functions	Current Capacity	Type of Terminals	Shape of Operational-part	Color of Operational-part
T	L	A	1	5	L	1

Operational-part	Symbol
Snap-in Rocker	L

Current Capacity	Symbol
10A 125V AC	1
10A 250V AC	2

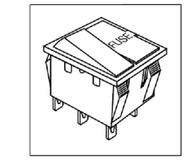
Shape of Operational-part	Symbol
Straight Shape	L

SwitchFunctions			Symbol	
Left Push	Center	Right Push	SP	DP
ON	-	OFF	A	K

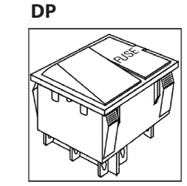
Type of Terminals	Symbol
Quick Connect #250	5

Color of Operational-part	Symbol
Orange Transparent	1
Red Transparent	2
Green Transparent	3

SP



DP



■ Examples of Terminal Figures（SP/ DP）

SP（ON-OFF、Illuminated）

DP（ON-OFF、Illuminated）

* Color of Operational-part is not indicated on the body.

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

Rocker

T Series

250VAC 10A 125VAC 10A

Quick Connect Terminal #250

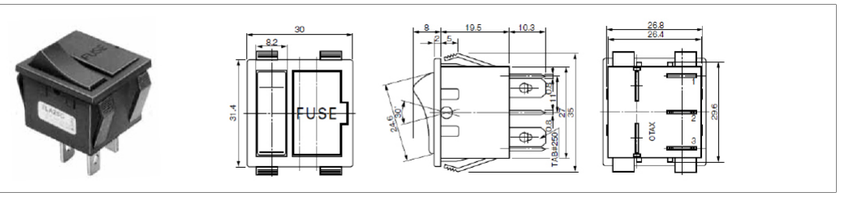
SP 2P

Switch Names, Functions, Terminal Diagram

■ Non-illuminated Type

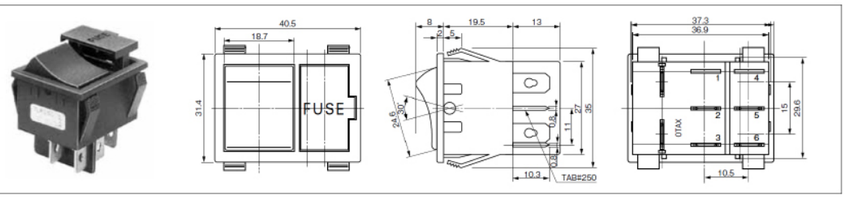
S P

Product Name	Resistive Load AC125V	Product Name	Resistive Load AC250V	Circuit	Functions		
TLA15 □□	10A	TLA25 □□	10A	SPST	ON 2-3	—	OFF
TLD15 □□	10A	TLD25 □□	10A	SPDT	ON 2-3	—	ON 2-1

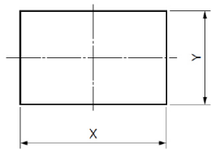


D P

Product Name	Resistive Load AC125V	Product Name	Resistive Load AC250V	Circuit	Functions		
TLK15 □□	10A	TLK25 □□	10A	DPST	ON 2-3 5-6	—	OFF
TLN15 □□	10A	TLN25 □□	10A	DPDT	ON 2-3 5-6	—	ON 2-1 5-4



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



	Panel Thickness	X	Y
SP	1.0～3.0	$26.9^{+0.1}_{0}$	$30.0^{+0.1}_{0}$
DP	1.0～3.0	$37.4^{+0.1}_{0}$	$30.0^{+0.1}_{0}$

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

Rocker

T Series

250VAC 10A 125VAC 10A

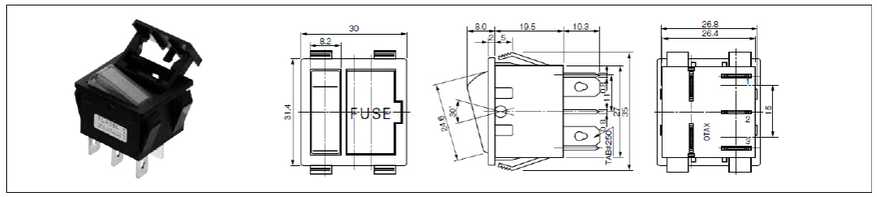
Quick Connect Terminal #250

SP 2P

■ Neon Lampllluminated Type

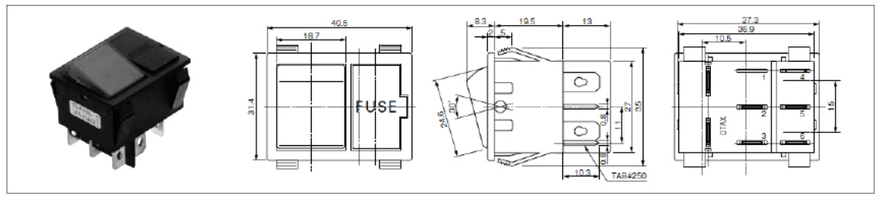
S P

Product Name	Resistive Load AC125V	Product Name	Resistive Load AC250V	Circuit	Functions		
TLA15L □	10A	TLA25L □	10A	SPST	ON 2-3	—	OFF



D P

Product Name	Resistive Load AC125V	Product Name	Resistive Load AC250V	Circuit	Functions		
TLK15L □	10A	TLK25L □	10A	DPST	ON 2-3 5-6	—	OFF

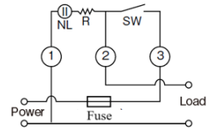


Wiring Diagrams

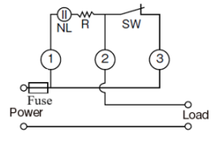
* Always turn off the switch before replacing the fuse.

SP

1) Switch ON–Lighting

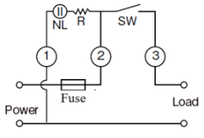


2) Switch OFF–Lighting※



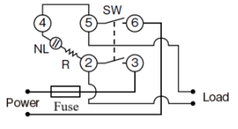
※ With this wiring pattern, since the Neon bulb lights up when the switch is at the OFF position, a small current (approximately 1–2 mA) flows through the Neon bulb and also through the load.

2) Steady Lighting

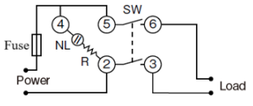


DP

1) Switch ON–Lighting



2) Steady Lighting



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

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.
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.)