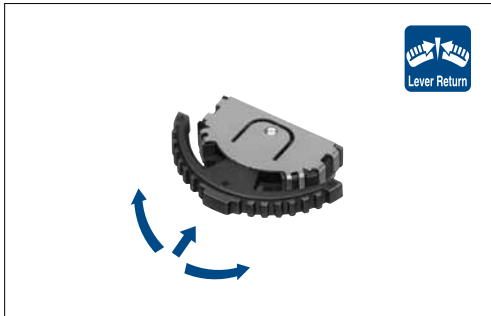


Compact two-way input device approximately 50% smaller than our conventional models



■ Typical Specifications

Items		Specifications
Rating (max.)/(min.) (Resistive load)		10mA 5V DC/50μA 3V DC
Contact resistance		1Ω max.
Operating force	Lever portion	0.65±0.3N
	Push portion	2.5±1N
Travel (Push operation)		0.7mm
Operating life	Without load	100,000 cycles
	With load	100,000 cycles (10mA 5V DC)

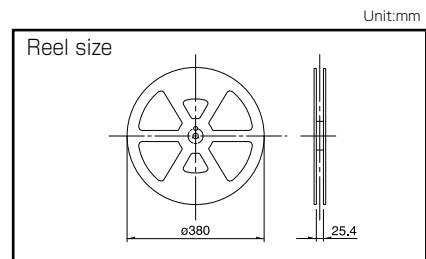
■ Product Line

Product No.	Actuator configuration	Push-on switch	Location lug	Minimum order unit (pcs.)		Drawing No.
				Japan	Export	
<b>SLLB510100</b>	Mounting knob integrated	With	With	1,500	6,000	1
<b>SLLB510200</b>			Without			
<b>SLLB520100</b>	Mounting knob		With	2		
<b>SLLB520200</b>			Without			

■ Packing Specifications

Taping

Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
1,500	3,000	6,000	24	428×413×172



Note

For automotive use, please contact us.

Multi Control Devices  
Variable Resistor Type  
Switch Type

# SLLB5 Lever and Push Operation Type Switch

## Dimensions

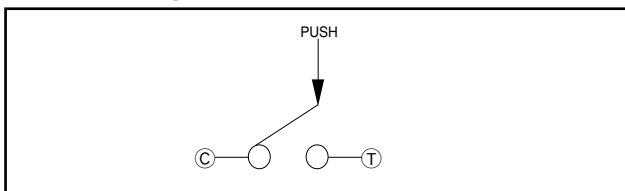
Unit:mm

No.	Style	PC board mounting hole and land dimensions
1	<p><b>Mounting knob integrated with boss</b></p>	
2	<p><b>Mounting knob with boss</b></p>	

### Note

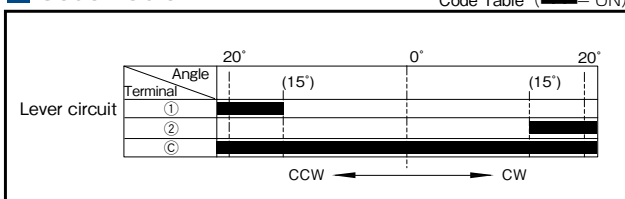
Dimensions drawing is for type with location lugs.







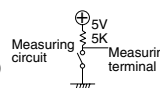
### Circuit Diagram (Push Portion)



### Code Table

Code Table (■ = ON)



Type		Switch type		
Series		SRBE	SLLB5 Small type	SLLB
Photo				
Dimensions (typical value) (mm)	W	—	9.5	11.8
	D	—	8.8	11.4
	H	—	2.2	3
Number of operating shafts		Single-shaft		
Shaft material		Resin		
Directional resolution		—	2-direction	
Directional operating feeling (tactile feeling)		With	Without	
Lever return mechanism		Without	With	
Center-push switch		With		
Encoder		With	Without	
Operating temperature range		-10°C to +60°C		-40°C to +85°C
Operating life	Operating life without load	100,000 cycles		
	Operating life with load (at max. rated load)	—	100,000 cycles	
Automotive use		—	—	—
Life cycle (availability)				
Rating (max.) (Resistive load)		1mA 5V DC	10mA 5V DC	
Electrical performance	Output voltage	1V max. at 1mA 5V DC (Resistive load)	—	1V max. at 1mA 5V DC (Resistive load) 
	Encoder resolution	6 pluses/360°	—	
	Insulation resistance	10MΩ min. 50V DC	100MΩ min. 100V DC	
	Voltage proof	50V AC for 1min.	100V AC for 1min.	
Mechanical performance	Push operating force	—	0.65±0.3N	
	Encoder detent torque	3.5±1.5N	2.5±1N	2±1N
	Terminal strength	3±2mN·m	—	—
	Terminal strength	—	3N for 1min.	
Actuator strength	Push / pull directions Operating direction	50N		
		—	10N	
Environmental performance	Cold	-30°C 96h	-20°C 96h	-40°C 96h
	Dry heat	85°C 96h		
	Damp heat	40°C, 90 to 95%RH 96h		
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# Switch Type / Soldering Conditions

## Reference for Manual Soldering

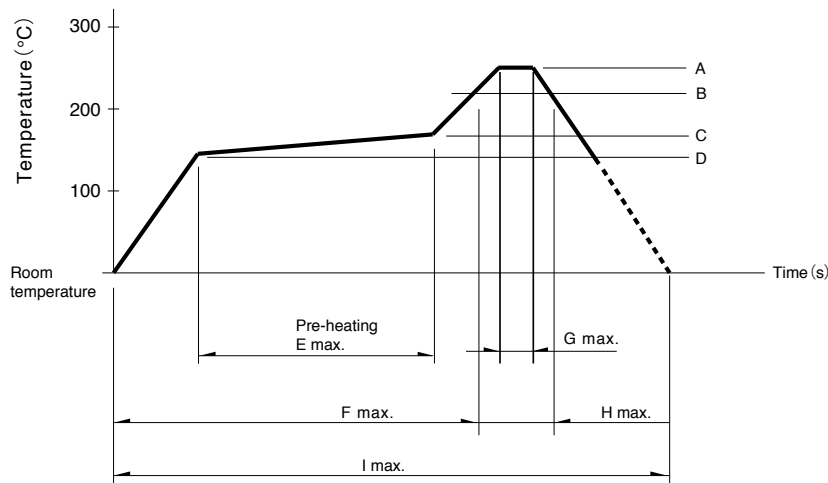
Series	Tip temperature	Soldering time	No. of solders
<b>RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH</b>	350±5℃	3s max.	1 time
<b>RKJXS</b>	350±10℃	3 <sup>+1</sup> <sub>-0</sub> s	2 time max.

## Reference for Dip Soldering

Series	Preheating		Dip soldering		No. of solders
	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	
<b>RKJXT1F, RKJXM</b>	100℃ max.	2 min. max.	260±5℃	5±1s	2 time max.
<b>RKJXL</b>	120℃ max.	70s max.	260℃ max.	6s max.	2 time max.

## Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple  $\phi$ 0.1 to 0.2 CA (K) or CC (T) at soldering portion (copper foil surface).  
A heat resisting tape should be used for fixed measurement.
3. Temperature profile



Series	A	B	C	D	E	F	G	H	I	No. of reflows
<b>RKJXS</b>	260℃	230℃	150℃	150℃	2 min.	—	10s	40s	4 min.	1 time
<b>SLLB5</b>	250℃	230℃	150℃	150℃	—	2 min.	—	30s	—	1 time
<b>SKRH, SLLB, SRBE</b>	260℃	230℃	180℃	150℃	2 min.	—	—	40s	—	1 time

### Notes

1. The above temperature shall be measured on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size thickness of PC boards and others. The above-stated conditions shall also apply to switch surface temperatures.
2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.