# Lever and Push Operation Type Switch

## Compact and low-profile horizontal type for various applications





### ■ Typical Specifications

Items		Specifications		
Rating (max.)/(min.) (Resistive load)		10mA 5V DC/50μA 3V DC		
Output voltage		1V max. at 1mA 5V DC (Resistive load)		
Operating force	Lever portion	0.65±0.3N		
Operating force	Push portion	2±1N		
Travel (Push oper	ation)	Refer to the dimensions.		
Operating life	Without load	100,000 cycles		
Operating life	With load	100,000 cycles (10mA 5V DC)		

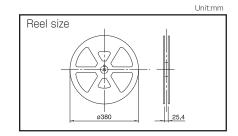
### Product Line

Product No.	Actuator	Push-on	Actuator	Location lug	Minimum order unit (pcs.)		
Floudet No.	configuration	switch	color	Locationiug	Japan	Export	
SLLB120100	Standard type Mounting knob		Black		1,350	5,400	
SLLB120200	Standard type Mounting knob	With	Gray	With			
SLLB120300	intograted		Black				

### Packing Specifications

### Taping

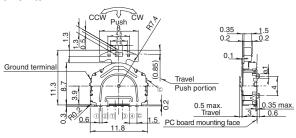
Numb	er of packages	Tape width	Export package	
1 reel	1 case / Japan 1 case / export packing		(mm)	measurements (mm)
1,350	2,700	5,400	24	428×413×172



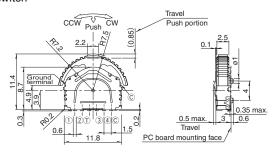
### Dimensions

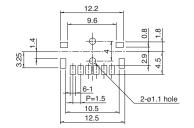
Style PC board mounting hole and land dimensions (Viewed from switch mounting face)

Mounting knob with push-on switch

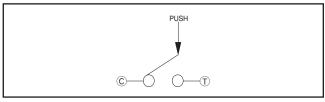


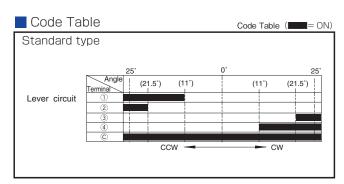
Mounting knob integrated with push-on switch





### Circuit Diagram (Push Portion)





	Туре			Switch type				
	Series		SRBE	SLLB5 Small type	SLLB			
Photo								
Dimensions		W	_	9.5	11.8			
(typical valu		D	_	8.8	11.4			
(mm)	Н		_	2.2	3			
Number of	operating	shafts		Single-shaft				
Sha	ft materia	al		Resin				
Directio	nal resol	ution	_	2-dire	ection			
Directional (tac	operating tile feeling		With	With	nout			
Lever ret	turn mecha	nism	Without	W	ith			
Center	-push sw	itch		With				
Е	ncoder		With	Without				
Operating t				-40℃ to +85℃				
Operating	Operating Operat		100,000 cycles					
life Operating life with load (at max. rated load)		e with load ted load)	_	— 100,000 cycles				
	motive u		_	_	_			
Life cyc	e (availa	oility)	<b>*</b> 3	<b>*</b> 3	**3			
Rating (ma	x.) (Resistiv	e load)	1mA 5V DC	10mA	5V DC			
Electrical	Output	/oltage	1V max. at 1mA 5V DC (Resistive load)	_	IV max. at ImA 5V DC Measuring \$5K Measurin terminal			
performance	Encoder r	esolution	6 pluses/360°	-	_			
	Insulation r	esistance	10MΩ min. 50V DC	100MΩ mi	n. 100V DC			
	Voltage	proof	50V AC for 1min.	100V AC	for 1min.			
	Push opera	ting force	_	0.65	±0.3N			
	Encoder det	ent torque	3.5±1.5N	2.5±1N	2±1N			
Mechanical	Terminal	strength	3±2mN⋅m	_	_			
performance	Terminal	_	_	3N for 1min.				
	Actuator	Push / pull directions		50N				
	strength Operating direction		_	10	ON			
	Ca		-30℃ 96h	-20℃ 96h	-40℃ 96h			
Environmental performance	Dry h	neat	85°C 96h					
ponomianos	Damp	heat	40°C, 90 to 95%RH 96h					
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## Switch Type / Soldering Conditions

### Reference for Manual Soldering

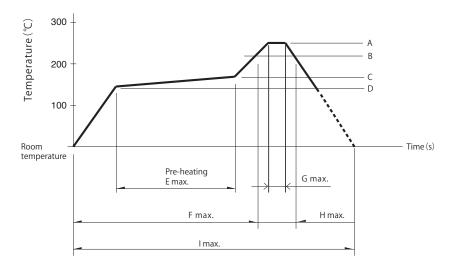
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 <sup>+1</sup> <sub>-0</sub> s	2 time max.	

#### Reference for Dip Soldering

Series	Prehe	ating	Dip so	No. of solders	
Jenes	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	No. or soluers
RKJXT1F, RKJXM	100℃ max. 2 min. max. 260±		260±5℃	5±1s	2 time max.
RKJXL	120°C max.	70s max.	260°C 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	А	В	С	D	Е	F	G	Н	I	No. of reflows
RKJXS	260℃	230℃	150℃	150℃	2 min.	_	10s	40s	4 min.	1 time
SLLB5	250℃	230℃	150℃	150℃	_	2 min.	_	30s	_	1 time
SKRH, SLLB, SRBE	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.

# 单击下面可查看定价,库存,交付和生命周期等信息

## >>ALPS Electric(阿尔卑斯)