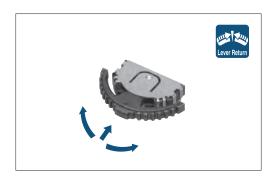
Lever and Push Operation Type Switch SLLB5

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





■ Typical Specifications

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

Product Line

Product No.	Actuator configuration	Push-on switch	Location lug	Minimum ord Japan	er unit (pcs.) Export	Drawing No.
SLLB510100	Mounting knob		With			1
SLLB510200	integrated	NACO .	Without	1500	6,000	
SLLB520100	Marinting Iraah	- With	With	1,500		2
SLLB520200	Mounting knob		Without			

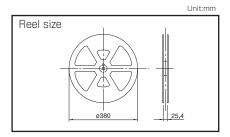
■ Packing Specifications

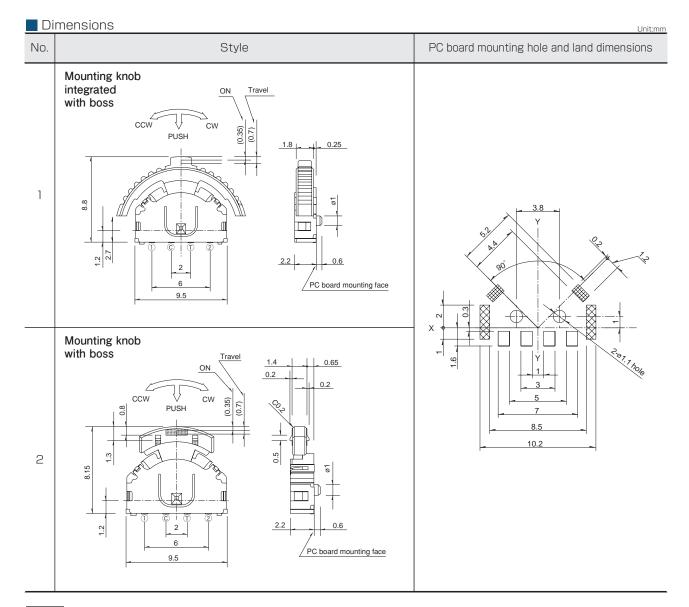
Taping

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

Note

For automotive use, please contact us.

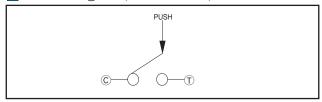


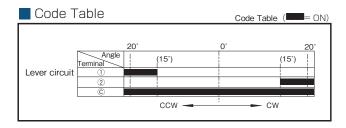


Note

Dimensions drawing is for type with location lugs.

■ Circuit Diagram (Push Portion)





SKRH

SKRHAC/AD

SKRHAA/AB

Type

Series

Photo

Actuator strength

Page

Environmental

Cold

Dry heat

Damp heat

29.4N

-40°C 96h

90℃ 96h

60°C, 90 to 95%RH 96h

405

	W	7.35/	7.45	_	9.5	11.8		
Dimension (mm)	ns D	7.	5	_	8.8	11.4		
, ,	H 5		_	2.2	3			
Sha	ıft material			Re	sin			
Direction	onal resolution	4-dire	ection	_	2-dire	ection		
	l operating feeling tile feeling)		Wi	th	Without			
Lever re	turn mechanism	W	ith	Without	W	ith		
Center	r-push switch			W	ith			
E	Encoder	With	nout	With	Witl	nout		
Operating	temperature range	-40℃ t	o +85℃	-10℃ t	0 +60℃	-40°C to +85°C		
	Without load	_	_		100,000 cycles			
	With load(10mA 5V DC)	_	_	_	100,00	00 cycles		
life	With load(5mA 5V DC)	200,000 cycles for each direction	1,000,000 cycles for each direction	_	_	_		
Auto	motive use	_	_	_	_	_		
Life cyc	ele (availability)	×	2	*3	★3	*3		
Rating (ma	ax.) (Resistive load)	50mA	12V DC	1mA 5V DC	10mA	5V DC		
Output voltage Electrical		_		1V max. at 1mA 5V DC		Measuring ⊕ _{5V} circuit \$5K Measuring 1V max. at \$5K Measuring 1mA 5V DC terminal (Resistive load)		
performance	Encoder resolution	_		6 pluses/360°	-	_		
	Insulation resistance	100MΩ min. 100V DC		10MΩ min. 50V DC	100MΩ mi	n. 100V DC		
	Voltage proof	100V AC for 1min.		50V AC for 1min.	100V AC	C for 1min.		
	Directional operating force	1.23±0.69N 1.2±0.69N		_	0.65	±0.3N		
	Push operating force	2.35±	0.69N	3.5±1.5N	2.5±1N	2±1N		
Mechanical	Encoder detent torque	-	_	3±2mN·m	_	_		
performance	Terminal strength		_	_	3N for 1min.			
Push / nu								

Switch type

SRBE

SLLB5

Compact type

50N

-20°C 96h

85℃ 96h

40°C, 90 to 95%RH 96h

408

10N

-40°C 96h

410

SLLB

-30°C 96h

406



Switch Type Multi Control Devices / Soldering Conditions

Reference for Manual Soldering

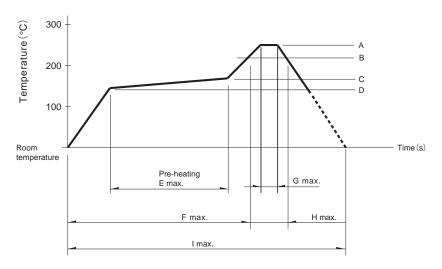
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	

■ 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°C max.	2 min. max.	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 ϕ 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
SLLB5	250℃	230℃	150℃	150℃	_	2 min.	_	30s	_	1 time
SLLB, SRBE	260℃	230℃	180℃	150℃	2 min.	_	_	40s	_	1 time
SKRH	260℃	230℃	180℃	150℃	2 min.	_	3s	40s	3-4 min.	2 times

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.

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