Lever and Push Operation Type Switch

Compact and low-profile horizontal type for various applications





Typical Specifications

Ite	ms	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			
	Push portion	2±1N			
Travel (Push operation)		Refer to the dimensions.			
Operating life	Without load	100,000 cycles			
Operating life	With load	100,000 cycles (10mA 5V DC)			

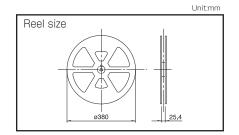
Product Line

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

Packing Specifications

Taping

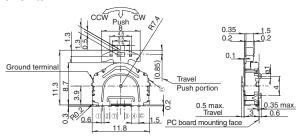
Numb	er of packages	Tape width	Export package	
1 reel	1 case / Japan 1 case / export packing		(mm)	measurements (mm)
1,350	2,700	5,400	24	428×413×172



Dimensions

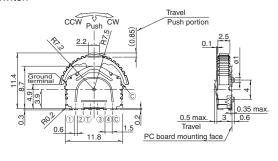
PC board mounting hole and land dimensions (Viewed from switch mounting face)

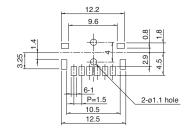
Mounting knob with push-on switch



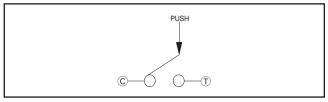
Style

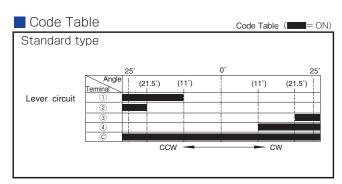
Mounting knob integrated with push-on switch





Circuit Diagram (Push Portion)





	Type 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					
Shat	ft materia	al		Resin					
Directio	nal resol	ution	_	2-dire	ection				
Directional (tact	operating tile feeling		With	Wit	hout				
Lever ret	turn mecha	nism	Without	W	ith				
Center	-push sw	itch		With					
E	ncoder		With	hout					
Operating temperature range			-10°C to +60°C						
Operating Operating Operating		ating out load	100,000 cycles						
life Operating life with load (at max. rated load)		e with load ited load)	_	— 100,000 cycles					
Auto	motive us	se			_				
Life cycl	e (availa	bility)	* 3	*3	*3				
Rating (ma	x.) (Resistiv	re load)	1mA 5V DC	10mA	5V DC				
Electrical	Output	voltage	1V max. at 1mA 5V DC (Resistive load)	_	1V max. at				
performance	Encoder re	esolution	6 pluses/360°	-	_				
	Insulation r	esistance	10MΩ min. 50V DC	100MΩ mi	n. 100V DC				
	Voltage	e proof	50V AC for 1min.	100V AC	C 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±2n		3±2mN·m	_	_				
performance	Terminal		— 3N for 1min.						
	Actuator			50N					
	strength Operating		_	10					
Environ	Со		-30°C 96h	-20°C 96h -40°C 96h					
Environmental performance	Dry h	neat	85°C 96h						
Damp heat			40℃, 90 to 95%RH 96h						
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Switch Type / Soldering Conditions

Reference for Manual Soldering

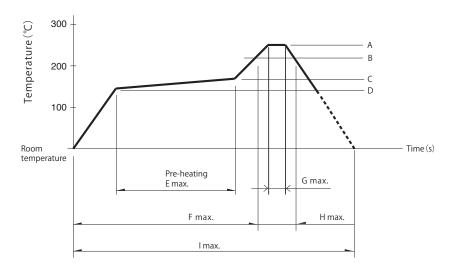
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.	

Reference for Dip Soldering

Series	Prehe		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±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	ı	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

- 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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