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			
	With load	100,000 cycles (10mA 5V DC)			

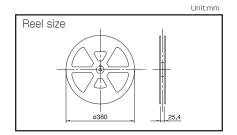
Product Line

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

Packing Specifications

Taping

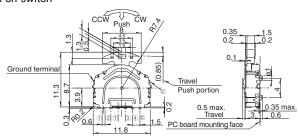
Numb	er of packages	Tape width	Export package	
1 reel	1 case / Japan	1 case / export packing	(mm)	measurements (mm)
1,350	2,700	5,400	24	428×413×172



Dimensions

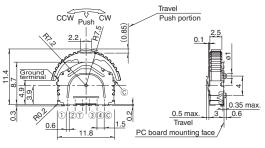
PC board mounting hole and land dimensions (Viewed from switch mounting face)

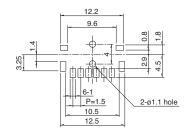
Mounting knob with push-on switch



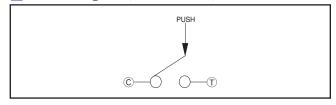
Style

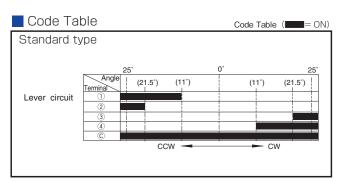
Mounting knob integrated with push-on switch





Circuit Diagram (Push Portion)





	Туре		Switch type					
:	Series	SRBE	SLLB5 Small type	SLLB				
	Photo							
Dimensions	W	_	9.5	11.8				
(typical valu		_	8.8	11.4				
(mm)	Н	_	2.2	3				
Number of	operating shafts		Single-shaft					
Sha	ft material		Resin					
Directio	nal resolution	_	2-dire	ection				
	operating feeling tile feeling)	With	Wit	hout				
Lever ret	turn mechanism	Without	W	ith				
Center	-push switch		With					
E	ncoder	With	Wit	hout				
Operating t	emperature range	-10℃ to +60℃ -40℃ to +85℃						
Operating	Operating life without load	100,000 cycles						
life Operating life with load (at max. rated load)		_	0 cycles					
Auto	motive use	_	_	_				
Life cyc	e (availability)	* 3	*3	*3				
Rating (ma	x.) (Resistive load)	1mA 5V DC	DC 10mA 5V DC					
Electrical	Output voltage	1V max. at 1mA 5V DC (Resistive load)	-	IV max. at ImA 5V DC Measurin circuit Measurir terminal				
performance	Encoder resolution	6 pluses/360°	-	-				
	Insulation resistance	10MΩ min. 50V DC	100MΩ mi	n. 100V DC				
	Voltage proof	50V AC for 1min.	100V AC	C for 1min.				
	Push operating force	_	0.65:	±0.3N				
	Encoder detent torque	3.5±1.5N	2.5±1N	2±1N				
Mechanical	Terminal strength	3±2mN·m	_	_				
performance	Terminal strength	_	3N for 1min.					
	Actuator Push / pull directions		50N					
	strength Operating direction	_	10N					
	Cold	-30℃ 96h	-20℃ 96h	-40℃ 96h				
Environmental performance	Dry heat		85℃ 96h	85°C 96h				
	Damp heat		40°C, 90 to 95%RH 96h					
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Switch Type / Soldering Conditions

Reference for Manual Soldering

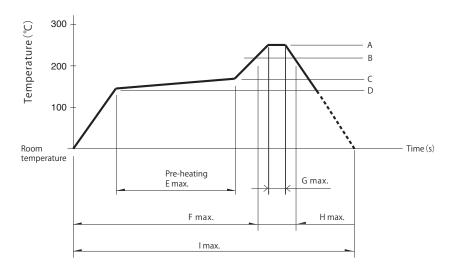
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.	

Reference for Dip Soldering

Series	Prehe		Dip so	No. of solders	
Jelles	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	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.