A compact multifunctional operating device that can be utilized on the side of the set device





■ Typical Specifications

Ite	ms	Specifications	
Ratings (max.)/(min.) (Resistive load)		1mA 5V DC/50μA 3V DC	
Output voltage	Jog portion Push portion	1V max. at 1mA 5V DC (Resistive load)	
Operating force (Push portion)	3.5±1.5N	
Travel (Push operation)		0.2mm	
Operating life	Jog portion Push portion	100,000 cycles	

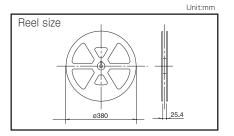
Product Line

Product No.	Number of detent	Number of pulse			Rotational torque (Jog portion)	Minimum order unit (pcs.) Japan Export		Drawing No.
SRBE110301	- 12			Standard	0.10.11	1,500	6,000	1
SRBE210200		6	Horizontal	Low-profile	3±2mN·m	1,300	5,200	2

Packing Specifications

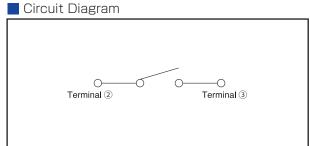
Taping

Product No.		r of package: 1 case / Japan	Tape width (mm)	Export package measurements (mm)		
	1 reel	I Case / Japan	1 case / export packing	(111111)	measurements (IIIII)	
SRBE110301	1,500	3,000	6,000	24	428×413×172	
SRBE210200	1,300	2,600	5,200	24		



Dimensions Unit:mm PC board mounting hole dimensions No. Style (Viewed from direction A) Push stroke Ground terminal No.6 CW Terminal No.1 Ground terminal No. 5 1 Terminal No.4 Terminal No.2 Common Push stroke 7.4 CW Terminal No.4 0.82 Terminal No.1 0.6 0.4 0.625 2 Terminal No.③ 1.05 Terminal No.2 Common 4-Through hole 10.6

Output Signal (Encoder) CW Terminal ① - ② OFF ON Terminal ② - ④ OFF ON Detent position





	Type			Switch type				
5	Series		SRBE	SLLB	SLLB5 Small type			
F	⊃hoto							
Dimensions		W	_	11.8	9.5			
(typical value		D	_	8.7	5.5			
(mm)		Н	_	3	2.2			
Number of	operating	shafts		Single-shaft				
Shaf	t materi	al		Resin				
Direction	nal resol	ution	_	2-dire	ection			
Directional (tact	operating ile feeling		With	With	hout			
Lever ret	urn mecha	nism	Without	W	ith			
Center-	push sw	vitch	With	With/Without	With			
Eı	ncoder		With	With	hout			
Operating temperature range			-10°C to +60°C	-40℃ to +85℃	-10°C to +60°C			
Operating	Operating life without load		100,000 cycles	100,000 cycles	100,000 cycles			
life	Operating life with load (at max. rated load)		_	100,000 cycles	100,000 cycles			
Automotive us		se	_	_	_			
Life cycle	e (availa	bility)	★ 3	*3	* 3			
Rating (max	k.) (Resistiv	ve load)	1mA 5V DC	10mA 5V DC				
Electrical	Output voltage		1V max. at 1mA 5V DC (Resistive load)	IV max. at ImA 5V DC Measuring 5K Measuring (Resistive load)	_			
performance	Encoder r	esolution	6 pluses/360°					
	Insulation r	resistance	10MΩ min. 50V DC	100MΩ min. 100V DC				
	Voltage	e proof	50V AC for 1min.	100V AC	C for 1min.			
	Push opera	eting force	_	0.65	±0.3N			
	Encoder de	tent torque	3.5±1.5N	2±1N	2.5±1N			
Mechanical	Terminal	strength	3±2mN⋅m	_	_			
performance	Terminal		_	3N fo	r 1min.			
	Actuator	Push / pull directions		50N				
	strength	Operating direction		10	NC			
	Сс		-30℃ 96h	-40℃ 96h	-20℃ 96h			
Environmental performance	Dry I	neat		85℃ 96h				
,	Damp	heat		40℃, 90 to 95%RH 96h				
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Switch Type / Soldering Conditions

Reference for Manual Soldering

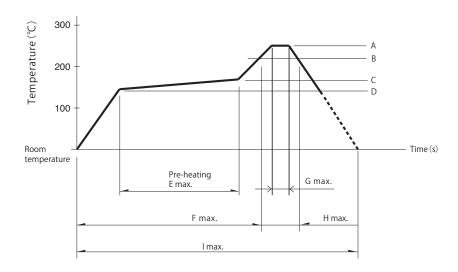
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRV, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.	

Reference for Dip Soldering

Series -		Prehe	ating	Dip so	No. of solders	
		Soldering surface temperature	Heating time	Soldering temperature	Soldering time	No. or soluers
		100°C max.	2 min. max.	260±5℃	5±1s	2 time max.
ı	RKJXL	120°C max.	70s max.	260°C max.	6s max.	2 time max.

■ Example of Reflow Soldering Condition

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
SKRV, 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.

