6-position Horizontal Type

SRBM Series



Pulse switching (20 pulses) model available in same figure.



Typical Specifications **Specifications Items** Rotary switch Pulse switch Rating (max.) / (min.) 0.1A 16V DC/50 \(\mu \) A 3V DC (Resistive load) **Contact resistance** $50m\Omega$ max./150m Ω max. (Initial/After operating life) **Rotational torque** 40±20 mN⋅m 15±7 mN⋅m Without load 10,000cycles 30,000cycles **Operating life** With load 10,000cycles (0.1A 16V DC)

Detector Push

Slide

Rotary

Encoders

Power Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Product Line

Number of wafers	Poles	Positions	Changeover angle	Changeover timing	Actuator configuration	Actuator length (mm)	Minimum order unit (pcs.)	Product No.	Drawing No.	
		2	2			18-tooth serration			SRBM120700	
					Flat	L=15	1,600	SRBM121300		
		3		Non shorting	18-tooth serration			SRBM131300		
	1	3				L=20	1,200	SRBM131400		
			30±3°			L=15	1,600	SRBM140700	1	
1		4				L=20	1,200	SRBM140800	'	
'					Flat	L-20	1,200	SRBM149501		
		5			18-tooth serration			SRBM150500		
			Flat		1,600	SRBM154002				
		1	1	6			18-tooth	L=15	1,000	SRBM160700
		20	18±3°	_	serration			SRBM1L0800	2	
				pulses	10-5		Flat		1,200	SRBM1L1400

Packing Specifications

Bulk

	Number of pa	Export package		
Product No.	1 case /Japan	measurements (mm)		
SRBM120700 SRBM121300 SRBM131300 SRBM140700 SRBM150500 SRBM154002 SRBM160700 SRBM1L0800	200	1,600	400×270×290	
SRBM131400 SRBM140800 SRBM149501 SRBM1L1400	150	1,200		

Notes

- 1. Products other than those listed in the above chart are also available. Please contact us for details.
- 2. All the axis are die casting shafts.
- 3. Please place purchase orders per minimum order unit N (integer).



Dimensions

Detector

Push

Slide

Rotary

Encoders

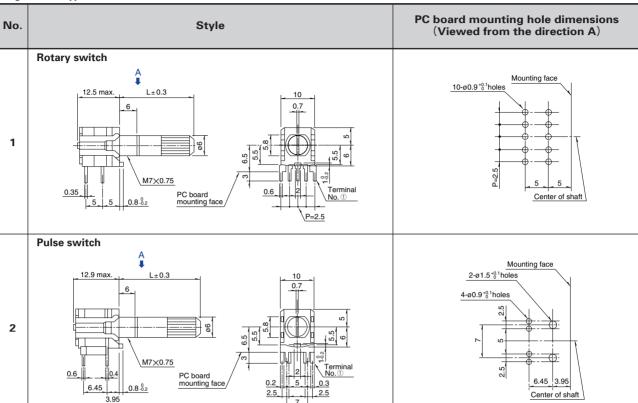
Power Dual-in-line

Package Type

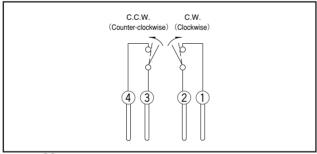
TACT Switch™

Custom-**Products**

Unit:mm Single-shaft Type



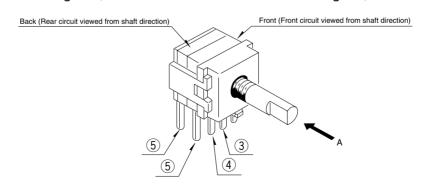
Pulse Switch Circuit Diagram



C.W. : 12 ON during changeover only 34 ON during changeover only C.C.W.:

Rotary Switch Circuit Diagram (Viewed from Direction A of Below Diagram)





Rotary Switch 6-position Horizontal Type | SRBM Series

2 to 4-pc	ositions	5-posit	ions※1	6-positions※2		
Rear	Front	Rear	Front	Rear	Front	
(4) (3) (2) (1)	5 4 3	5 1	5 4 3	5 1	5 4 3	

%1: Circuit steps are positions 2 to 5 at front and positions 1 to 4 at rear. %2: Circuit steps are positions 3 to 6 at front and positions 1 to 4 at rear. For above %1 and %2: External wiring to common terminal is required.

Notes

- 1. For positions 2 to 4, 1section consists of 2-poles.
- 2. For positions 5 and 6, 1 section consists of 1-pole.

Dummy Terminals

Number of positions	2	3	4	5	6
Front	4 5	(5)			
Rear	3 4	4)			

ALPS

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**



List of Varieties

Push
Slide
Rotary
Encoders
Power
Dual-in-line
Package Type

Custom-Products

	Series		SRBD	SR	BQ	SRRIV	Л	SRI	RV	SR	вм	SR	RN
			SNBD	Insertion	Reflow type	Shhiv	•	Shi	5 V	Rotary	Pulse	- Sn	niv.
	Photo		•	•	•								
Outline specifications	Step angle Step angle		36°	40±3°		30±3°			18±3°	30±	:3°		
Number of poles			1		1 2 3 4			1		1 2		2 3 4	
	W			11.4				16	.2	12	2.5		
Dir	mensions (mm)	D	10	1:	2.4			18	.5	1	0		
	(11111)	Н	1.7	3	.5			7.5		11	1.5	-	
Opera	ting tem _l	perature	-25°C to +85°C		-10°C to	+60℃			-40°C to	L——— o +85℃		-10°C to	ი +60℃
	Rating(max.)/(min.) (Resistive load)		1mA 5V DC 50μ A 3V DC		16V DC 3V DC	0.25A 30\ 50 <i>μ</i> A 3V	-	0.3A 10 50 <i>μ</i> A 3			6V DC 3V DC	0.15A 12V DC 50μ A 3V DC	
per		ation tance	100MΩ m	n. 100V DC		100MΩ min. 500V DC		100MΩ min. 100V DC		DC	100MΩ min. 500V DC		
Electrical performance	Voltag	e proof	100V AC for 1minute		500V AC for 1minute 100V AC		OV AC fo	or 1minute		500V AC for 1minute			
ance	Terminal strength		3N for 1minute 5N for 1minute		10N for 1minute		5N for 1minute		,				
	Actuator Rotational direction		_			1N·m	m 0.6N·m		l·m	0.5N·m —		1N	·m
Med	strength	Push direction	50N	20N		100N							
Mechanical performance	Wobble of actuator		Load at the tip of shaft SRRM: 5N shows for SRBV, SRBQ: 1N			I tram maunting ourte				Shaft wobble (max. value)	Applicable mounting dimension		
perfo			(Unit:	m	istance fror lounting	Silait	Measuring	Shaft	: mm)	10r	mm	0.17 mm	15 mm
rmano			position from wobble m	ounting tip	urface to the of shaft elow 5	0.5 max.	position from mounting surface	wobble	Applicable mounting dimension	15r	mm	0.25 mm	20 mm
Ö			10 0.17 15 0.25			v 10 0.9 max. v 15 1.2 max.	10 15	0.2	15 20	Load	at the ti	o of sha	ft : 5N
Dur		ing life ut load	10,000cycles 250mΩ max.		Ocycles Ω max.	10,000cycles 10,000cycles 40mΩ max. 100mΩ max.				ocycles max.			
ability	without load Operating life with load Load: (at rated load)		10,000cycles 250mΩ max.		Ocycles Ω max.		10,000cycles 10,000cycles 60mΩ max. 150mΩ max.				Ocycles O max.		
Env	Cold		–40±2℃ for 500h				−20±2°C for 96h						
Environmental performance	Dry heat		85±2℃ for 500h	5±2℃ for			85±2℃ for 96h						
ental nce	Damp heat		60±2°C, 90 to 95%RH for 500h			4	0±2°	C, 90 to 9	95%RH 1	for 96h			
So	Manual soldering			350±10℃ 3 ⁺ ∂s	350±5℃ 3s max.				350±10	°C, 3 ⁺¹ ₀s			
Soldering	Dip soldering			260±5℃ 5±1s			260 10	±5℃ ±1s		1	±3℃ nax.		±5℃ ±1s
ng		low ering	Please see F	2.200									
	Page		186	1	88	195		19	3	19	90	19	97

- Rotary Switches Shaft Style ······199
- Rotary Switches Soldering Conditions
 200

Shaft Configurations

■ 18-tooth Serration Shaft

The shaft shows the position in which it is turned fully counterclockwise. ①

①Cutting Shaft

Detector

Push

Slide

Rotary

Encoders

Power

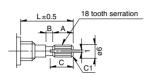
Dual-in-line

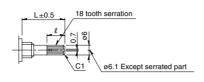
Package Type

TACT Switch™

CustomProducts

2Die Casting Shaft





		U	nit:mm
Shaft length L	А	В	С
15	6	1	7
20	10	2	11

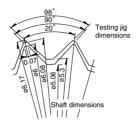
Uı	nit:	mr	n

Shaft length L	l
15	8
20	12

Details About Serration

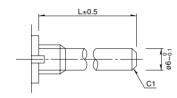
- (1) The mold dimensions of standard serration and the dimensions of test jigs are as shown in the figure at left.
- (2) Position of the serration bottom When the shaft is turned fully counterclockwise, the position of the serration bottom is on the AA line.
- (3) Slitting angle

The slitting angle (position) is not specified.



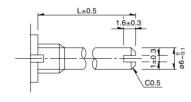
(2)

Round Shaft



Round Shaft with Groove

The shaft shows the position in which it is turned fully counterclockwise.

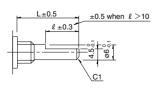


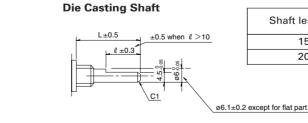


Flat Shaft

The shaft shows the position in which it is turned fully counterclockwise.

Cutting Shaft





U	Init:mm
Shaft length L	l
15	7
20	12
	,

Shaft flatten angle

Note

SRBM Series are based on ///// (printed terminal direction). SRRM, SRRN, SRBV Series are based on (panel lug).

Attached Parts

The following parts are included with the product.

SRRM, SRBV Unit:mm

Detector

Push

Slide

Rotary

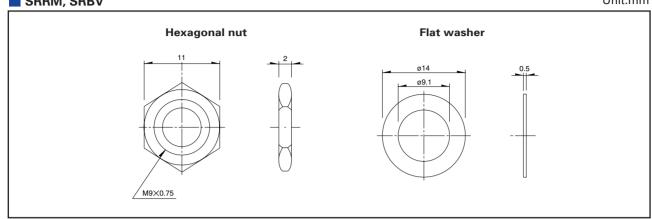
Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-Products



Unit:mm SRBM, SRRN

