Rotary Switch 6-position Horizontal Type

SRBM Series



10,000cycles(0.1A 16V DC)



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

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**



Typical Specifications			
Items	Specifications		
	Rotary switch	Pulse switch	
Rating(max.)/(min.) (Resistive load)	0.1A 16V DC/50μA 3V DC		

With load

Contact resistance 50m max./150m max. (Initial/After operating life) **Rotational torque** 40 ± 20 mN⋅m 15 ± 7 mN·m Without load 10,000cycles 30,000cycles **Operating life**

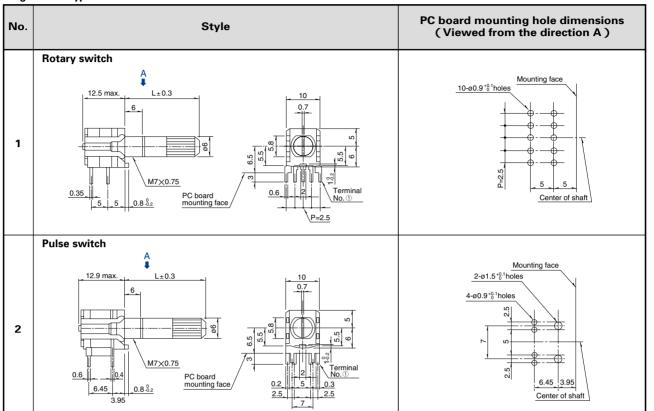
Droduct Line

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

- 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(integer).

Dimensions

Unit:mm Single-shaft Type



Push

Detector

Slide

Rotary

Encoders

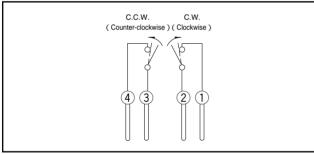
Power

Dual-in-line Package Type

TACT Switch™

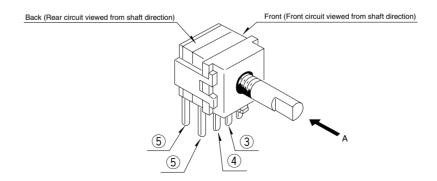
Custom-**Products**

Pulse Switch Circuit Diagram



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

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



2 to 4-po	ositions	5-posit	ions 1	6-positions 2		
Rear	Front	Rear	Front	Rear	Front	
(5) (4) (3) (2) (1)	1 5 4 3 2	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5 1	1 3 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					
Rear					

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT C...tall

TACT Switch[™]

List of Varieties

Rating(max)/(min) (Resistive load)	Series SRBD SRBQ Insertion SRRM SRBV SRBM Rotary Pulse						SRRN			
Dimensions (mm)	Photo		9	4 9					•	
Dimensions (mm)	Step angle		36 °	40 ± 3 °		30 ± 3 °	18±3°	30 ± 3 °		
Dimensions (mm)	Number of poles			1	2 3	1		2 3 4		
Dimension (mm)	W		40	11.4		16.2	12.5			
H 1.7 3.5 7.5 11.5			D	10	12.4		18.5	10	İ	
Rating(max)/(min) (Resistive load)		()	Н	1.7	3.5		7.5	11.5	-	
Note 100	Opera		perature	-25 to +85	-10 t	o +60	-40 to	o +85	-10 to +6	0
Part	Rat (R	ing(max)/ lesistive lo	(min) oad)						0.15A 12V I 50μ A 3V E	
Actuator strength Rotational direction TN·m 0.6N·m 0.5N·m TN·m 1N·m 100N Load at the tip of shaft SRRM: 5N SRBV, SRBQ: 1N (Unit:mm) Distance from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for SRBV Snatton from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting mounting mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting mounting mounting surface to the tip of shaft mounting mounting mounting mounting mounting surface to the tip of shaft mounting	рег E	Initial contact resistance 100M min. 100V DC 100M min. 500V DC 100M min.		in. 100V DC	100M mi 500V DC					
Actuator strength Rotational direction TN·m 0.6N·m 0.5N·m TN·m 1N·m 100N Load at the tip of shaft SRRM: 5N SRBV, SRBQ: 1N (Unit:mm) Distance from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for SRBV Snatton from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting mounting mounting surface to the tip of shaft shows for Snatton from mounting surface to the tip of shaft mounting mounting mounting surface to the tip of shaft mounting mounting mounting mounting mounting surface to the tip of shaft mounting	Insulation resistance		100V AC for 1minute			100V AC for 1minute		500V AC for 1minu		
Actuator strength Push direction Common in the properties of strength Actuator strength Push direction Figure 1	Voltage proof		3N for 1minute	or 1minute 5N for 1minute		10N for 1minute		5N for 1minute		
Strength Push direction 50N 20N 100N 100N Load at the tip of shaft SRRM: 5N SRBV; SRBO: 1N (Unit:mm) Measuring position from mounting surface (Unit:mm) 10mm	Actuator			1N· m 0.6N· m 0.5N· m		0.5N• m	1N• m			
15 0.25 20 20 20 20 20 20 20 20 20	Me			50N	20N 100N					
15 0.25 20	hanical perform actuator		SRRM: 5N	shows fo	r SRBQ shov Jnit : mm)	ws for SRBV	from mounting surface	(max. value) dimer	٠,	
15 0.25 20 20 20 20 20 20 20 20 20			Measuring Shaft wobble mounting (max.	mounting surface to the tip of shaft	wobble (max.value) Measuring position fi	Shaft wobble mounting dimension		mm m	m 20	
without load 250m max. 100m max. 40m max. 100m max. 100m max. 70m max. Operating life with load 10,000cycles 10	G 6		10 0.17	15 above 5 and belo	ow 10 0.9 max. 10	0.2 15	Load at the ti			
Operating life with 10,000cycles Du							, ,	10,000cycl 70m ma:		
	ability	loa	ad						10,000cycl 100m ma	
Cold	Envi	500h -20 ± 2 for 96h				1				
Cold	ronma	Dry heat			85 ± 2 for 85 ±			85 ± 2 for 96h		
Damp heat 60±2, 90 to 95%RH for 96h					40 ± 2 , 90 to 95%RH for 96h					
Manual soldering 350 ± 10 350 ± 5 3s max. 350 ± 10 , 3 * δ s				350 ± 10 350 ± 5 $3 \cdot 10$ 350 ± 5 3 max.		350 ± 10	, 3 ⁺¹ s			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
Reflow soldering Please see P.172	ng			Please see F	2.172					
Page 158 160 167 165 162 169		Page		158	160	167	165	162	169	

Detector

Push

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Dual-in-line Package Type

TACT Switch™

Shaft Configurations

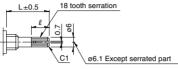
■ 18-tooth Serration Shaft

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

Cutting Shaft



Die Casting Shaft



Unit:mm

Shaft length L	Α	В	С
15	6	1	7
20	10	2	11

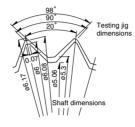
Unit:mm

Shaft length L	l
15	8
20	12

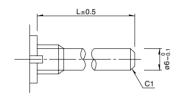
Details About Serration

- (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.

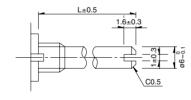


Round Shaft



Round Shaft with Groove

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

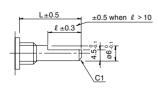




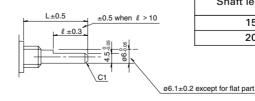
Flat Shaft

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

Cutting Shaft



Die Casting Shaft



	Uı	nıt:mm
ngth L		l

Shaft length L	l
15	7
20	12

Shaft flatten angle M \oplus

Note

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

Push

Detector

Slide

Rotary

Encoders

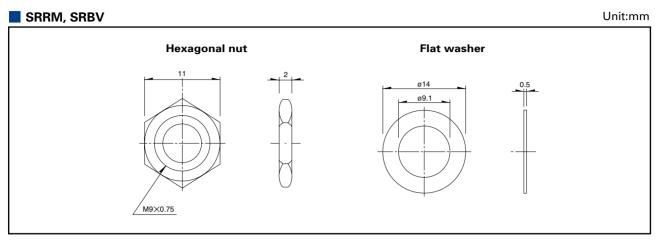
Power

Dual-in-line Package Type

TACT Switch™

Attached Parts

The following parts are included with the product.



Unit:mm SRBM, SRRN Hexagonal nut Flat washer ø12 M7×0.75

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™