Hollow Shaft Type Devices Hollow Shaft Type

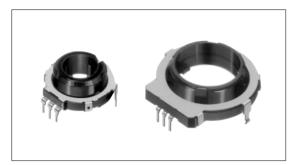
SRGP Series





Hollow-center shaft encoder enabling various combinations.

Hollow Shaft Type Devices



■ Typical Specifications

Items		Specifications	
Rating(max.)/(min.) (Resistive load)		10mA 5V DC/50μ A 3V DC	
Output voltage		1V max. at 1mA 5V DC (Resistive load)	
Operating life	Without load	50,000cycles	
	With load	50,000cycles	

Product Line

Detent torque (mN·m)	Number of detent	Number of pulse	Operating direction	Minimum order unit(pcs.)	Product No.	Drawing No.
7 ± 3	20	10	Vertical	1,000	SRGP200200	1
13 ± 4	16	16		600	SRGPWJ0500	2
6.5 ± 4	32				SRGPWJ0200	

Notes

- 1. Products other than those listed in the above chart are also available. Please contact us for details.
- 2. It is requested that the order placed be an integer multiple of the minimum order units. For export packing, please consult us.

Encoder Type

Potentiometer Type Dimensions Unit:mm PC board mounting hole dimensions No. Style (Viewed from the Direction A) 23.6 2-ø1.5 holes 1 Phase difference of code portion Clockwise (36°) (18°) Detent position $T1,T3 = 1/4T \pm 1/8T$ T2,T4 = Phase difference shall not be reversed 0.6 0.6 ø30 ø18.5 ø16.3 R0.5 2-ø2.55 holes 8 2 3.5 3-ø1 holes 23 31.8 Phase difference of code portion Clockwise Clockwise (22.5 (11.25° ON OFF T1 | T2 | T3 | T4 T1,T3=1 / 4T ± 1 / 8T T1,T3=1 / 4T ± 1 / 8T T2,T4=Phase difference shall not be reversed T2,T4=Phase difference shall not be reversed (SRGPWJ0500) (SRGPWJ0200)

Note

PC board thickness in above diagram is based on 1.6mm.

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Encoder Type

Potentiometer Type

List of Varieties

Туре		Hollow type						
		17mm size		22mm size	30mm size			
Series		SRGP30	SRGP40	SRGP20	SRGPWJ			
Photo		0			9			
	Output	Incremental						
	Shaft types	Hollow shaft						
Outline specifications	Operating direction	Vertical						
	Number of pulse/ Number of detent	9/18	12/24	10/20	16/16 16/32			
	Push switch (Travel mm)	Without						
	Optional functions							
	Changeover angle	20°	15°	18°	22.5 °			
	W	17	7.5	23.6	31.8			
Dimension (mm)		18.5	18.25	23	32			
	Н	2.3	1.55	4.	.5			
	Manual soldering	350 ± 5 , 3s max.	350 ± 10 , 3^{+1}_{0} s max.	350 ± 10 , 3 ⁺ ₀ s				
Solderin	ng Dip soldering			260 ± 5 , 5 ± 1s				
Reflow soldering		Please see P.198						
Maximum op	erating current(Resistive load)	-10 to +60		-40 to +85				
Electrical performance	Output wave	1V max. at 5V DC,1mA (resistive load) Measuring ξ 5KΩ circuit Measuring terminal						
тсе	Insulation resistance	100M min. 100V DC						
	Voltage proof	100V AC for 1minute						
Me	Rotational torque	5 ± 2 5mN; m	2 ± 1mN∙ m	- 7 ± 3mN• m —	13 ± 4mN• m			
echai		5 ± 2.5mN• m	3.5 ± 1mN• m		6.5 ± 4mN• m			
l perfo	Terminal strength			5N for 1minute				
	Actuator strength Rotational direction Push direction	20N		40N				
	Vibration	10 to 55 to 10Hz/min., the an	nplitude is 1.5mm for all the frequ	encies, in the 3 direction of X, Y and Z for 2 hours respectively				
ъ <u>п</u>	Cold	-40 ± 2 for 96h	for 96h —20 ± 2 for 96h					
Environmental performance	Dry heat	85 ± 2 for 96h						
ental	Damp heat 40 ± 2 , 90 to 95%RH for 96h							
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Encoder Type

Potentiometer Type

Note