Hollow Shaft Type Devices 60mm Size Encoder Type

EC60A Series





Large hollow-center structure contributes to multifunctioning.



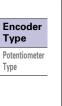


Typical Specifications				
Items	Specifications			
Rating	0.5mA 5V DC			
Operating life	30,000cycles			

Product Line

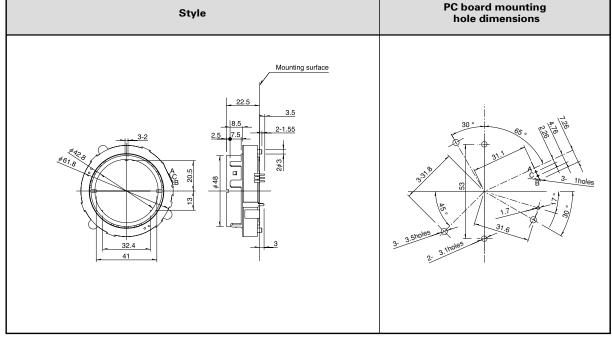
Actuator length (mm)	Detent torque (mN·m)		Number of pulse	Operating direction	Minimum order unit(pcs.)	Product No.
22.5	40 ± 20	30	15	Vertical	150	EC60A1520404

Dimensions Unit:mm



Type

Type



List of Varieties

Hollow Shaft Type Devices

Туре		Encoder								
		21mm size	28mm size	35mn	n size	40mm size	45mm size	60mm size		
Series		EC21A	EC28A	EC35AH	EC35B	EC40A	EC45A	EC60A		
Photo			0		1			0		
Output			Increr	nental	ABC	Incremental/ Self-returen switch	Incremen	tal Absolute	Incremental	
Shaft types		Hollow shaft								
ş	Operat	ing direction				Vertical				
Outline specifications	Numb Numb	er of pulse/ er of detent	9/18 15/30	15/30	6×ABC / 18 10×ABC / 30		15/30	31 Position	15 / 30	
atio	Push sw	itch(Travel mm)				Without				
ons	Option	nal functions								
Changeover angle					12	0		12 °		
Ş.		w		28		35	40.4	44.5		
nens		D	21.6	29	35	37	41.6	45	61.8	
ions	W D H Dimensions (mm)			4	15	21.35	ç	9	11.5	
	Manu	al soldering			35	0 max. 3s ma	ax.			
Manual soldering Dip soldering Reflow soldering		260 ± 5 , 5 ± 1s 260 max. 5s max.					ax.			
Reflow soldering										
Operatin	ng temper	ature range	ge -40 to +85							
Output voltage Output voltage		2.5V max. at 5V DC,1mA (resistive load)		2.5V max. at 5V DC,0.5mA (resistive load)	2.5V max. at 5V DC,1mA (resistive load)	2.5V max.at 5V DC,0.5mA (resistive load)				
rica mar	Insulation resistance		100M min. 250V DC			10M min. 50V DC 10M min. 500V E				
ice i	Voltage proof		300V AC for 1minute			50V AC for 1minute 500V AC for 1				
		tional	16 ± 7mN• m	12 ± 7mN⋅m 20 ± 10mN⋅m	18 ± 7mN• m	20 ± 10mN• m	20 ± 11mN• m	Shall be in accordance with individual specifications.	40 ± 20mN• m	
0 ≥	© ≤ Terminal strength				Iminuto			3N for 10s.		
lect	Termina	Rotational								
Mechanical performance	Terminal strength 5N for 1minute 3N									
strength Push direction		100N			50N					
	Vib	ration	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respecti						ours respectively	
Envi	С	old	-40 ± 2 for 240h -40 ± 3 for 240h)h			
Environmental performance	Dry heat		85 ± 2 for 240h 85 ± 3 for 240h							
ental	Damp heat 60 ± 2 , 90 to 95%RH for 240h 40 ± 2 , 90 to 95%RH for				for 240h					
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Encoder Type Potentiometer

Type

Self-return Switch Specifications

och return ewiten epecineations				
Items	EC35B			
Circuit • number of contacts	Single pole and double throw(Self-return)			
Trave(mm)	2.8 ± 0.5			
Push operating force(N)	3.8 ± 1.5			
Switch ON position	15 ± 5 °			
Ratational torgue	40 ± 25mN⋅m			
Rating	10mA 5V DC			
Contact resistance	200m max.			
Operating life	15,000cycles			

Note

^{**} The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.