ECO **Vishay Sfernice**



Precision Rotative Transducers, Conductive Plastic, Economic Series (ECO)



The "ECO" models are a comprehensive range of rotational motion transducers for industrial applications.

FEATURES

- Size 05 09 13
- · Reasonable Cost
- · Long Life
- Accuracy ± 1% down to ± 0.25%
- · Bush or Servo Mounting
- · Rear Mounted Terminals
- Following MIL-R-39023 and NFC 93-255 requirements

All mechanical and electrical parameters can be adapted to meet your specifications.

SIZE	05			09		13			
MODEL	50 ES	50 CB	78 ES	78 CS	78 CB	156 ES	156 CS	156 CB	

ELECTRICAL SPECIFICATIONS							
Theoretical electrical angle (TEA)	actual electrical angle (AEA) - 2°						
Independent linearity (over TEA)	A ≤ ± 1%			$B \le \pm 0.5\%$	C ≤ ± 0.25%		
Actual electrical angle (AEA)	330° ± 5°		340° ± 5°		350° ± 3°		
Ohmic values (R⊤)	$1k\Omega$ - $5k\Omega$ - $10k\Omega$ - on request other values			s			
Ohmic value tolerances at 20°C	± 10%	± 20 %	± 10%	± 20%	± 10%	± 20%	
Output smoothness	≤ 0.05%						
Maximum power rating at 70°C	0.2W		0.3W		0.5W		
Wiper current	recommended: a few µA - 1mA max. (continuous)						
Tap (current or voltage)	N	A	1 on request				
Resistance load on wiper	minimum 10 ³ x RT						
End voltage	≤ 0.2%	≤ 0.5%	≤ 0.2%	≤ 0.5%	≤ 0.2%	≤ 0.5%	
Insulation resistance	≥ 1000MΩ, 500VDC						
Dielectric strength	≥ 500VRMS, 50Hz						

MECHANICAL SPECIFICATION	S							
Mechanical angle (MA)	360° continuous							
on request: stops	NA 340° ± 3°			350° ± 3°				
Mounting type	servo	bushing	servo bushing		bushing	servo		bushing
Shaft guiding	ball	sleeve	ball	sleeve		ball	sleeve	
	bearings	bearings	bearings	s bearings		bearings	bearings	
Shaft	stainless steel							
Housing	plastic moulding							
Termination	turrets							
Wiper	precious metal multi-finger contact							
Starting torque (N.cm)	orque (N.cm) ≤ 0.2 ≤ 0.5 ≤ 0.2 ≤ 0.5 ≤ 0.2		≤ (0.5				
Torque on stops (N.cm)	50							
Weight (g)	5 ± 2	8 ± 2	13 ± 2	17	′±2	29 ± 2	34	± 2
Moment of inertia (g. cm ²)	≤ 0.5		≤ 1		≤ 2			

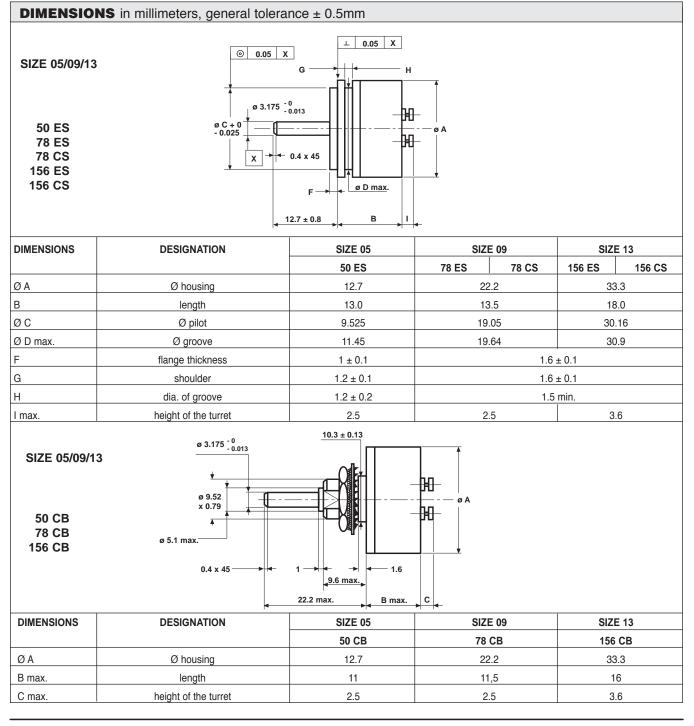
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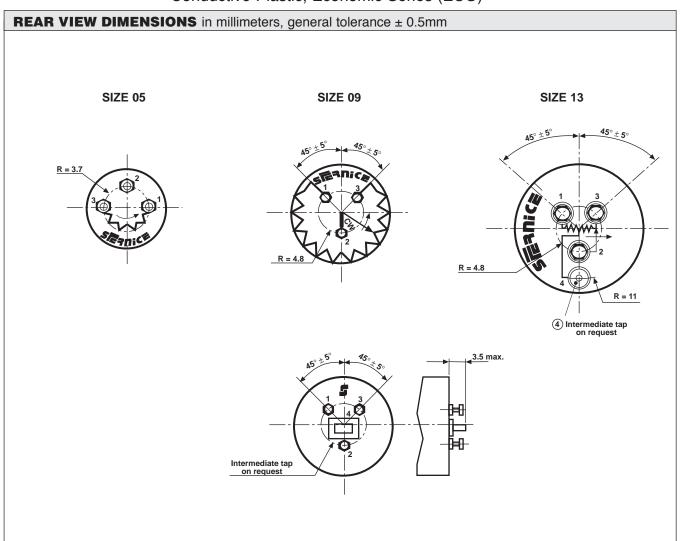
PERFORMANCE					
Life (10 ⁶ cycles)	30 (on ES models)	20 (on CS and CB models)			
Temperature range	– 55°C, + 125°C				
Climatic category	55 / 125 / 04				
Speed rotation (RPM)	600 (on ES models)	150 (on CS and CB models)			
Sine vibration on 3 axes	1.5 mm or 20g from 10Hz to 2000Hz				
Mechanical shocks on 3 axes	50g - 11ms - half sine				





ECO

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ORDERING INFORMATION									
ECO	78	E	S	A	т	103	w		
SERIES	MODEL	TYPE	FIXATION	LINEARITY	TAP	OHMIC VALUE	MODIFICATION		
		E = Ball bearings C = Sleeve bearings	S: Servo B: Bushing	Code A: ± 1% B: ± 0,5% C: ± 0.25%	on request T: voltage U: current position to be specified	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number		



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