Rotary Position Sensor

PHS11 Series



Features:

- Dust proof construction protects the interior from dust, which maintains • stable characteristics
- Excellent resistance materials and high reliability wiper achieves 1,500,000 . cycles
- Ultra-thin size (2.2mm height) •



Description:

The PHS11 series is a rotary position sensor that features dust proof construction, an ultra thin size, and a life cycle of 1,500,000 cycles. Some applications are HVAC sensors and motor drive units.

Applications:

- Rotary angle sensor •
- Electric motor-driven bicycle •
- Motor drive unit
- HVAC sensor

SYMBOL	PARAMETER	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
Ω	Resistance	1K		100K	Ohms	
	Total resistance tolerance		±20%			
	Power rating			0.1W		
	Linearity (electrical angle < 180°)		±5		%	
	Linearity (180° \leq electrical angle < 300°)		±3		%	
	Linearity (electrical angle \geq 300°)		±2		%	
	Rotational noise			<80	mV	
	Effective Electrical Angle		333	±3	Degrees	
	TCR		±500		ppm/°C	

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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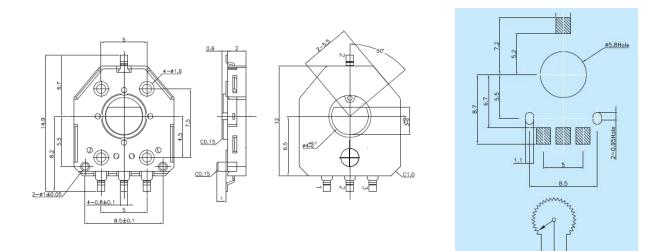
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Mechanical Characteristics					
Rotational Angle	360°				
Rotational torque	0-30gf-cm				
Shaft push/pull strength	> 1.0kgf for 10 sec min				
Storage Temperature	-40°C to +120°C				
Operating Temperature	-40°C to +120°C				
Life Cycles	1,500,000 cycles min				
Dry Heat	120 ± 3°C, 250 ±8H △TR ± 20%, Linearity: ±2%				
Cold	-40 ± 3°C, 168 ±4H ∆TR ± 20%, Linearity: ±2%				
Humidity	60 ± 2°C, 90 to 95RH, 250 ±8H				
Temperature Cycles	-40°C to +120°C, 5 cycles				

Packaging



General Note

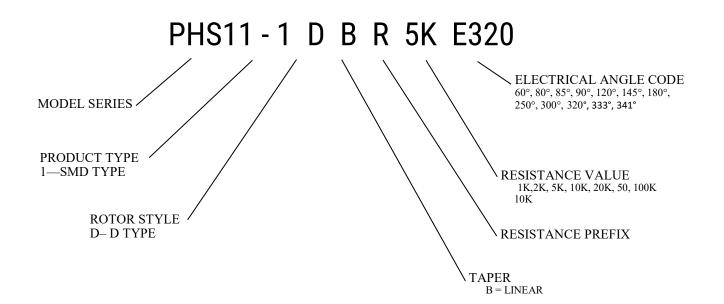
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1 2 3 CIRCUIT **PHS11 Series**



ORDERING INFORMATION



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