Rotary Position Sensor

PHS04 Series



Features:

- Angle/Position sensor with more than a 300,000 life cycle
- Small footprint size at 4mm width x 5mm length
- Smooth operation



Description:

The PHS04 series is a rotary position sensor that features a small footprint, smooth operation, and a 300,000 life cycle. Some applications are game controllers and robot joint angle controls.

Applications:

- Robot joint angle control
- · Game controller

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Ω	Total Resistance	1K		100K	Ohms	
V	Rated Voltage	5.0		50	Volts	
W	Rated Power		0.01		Watts	
	Linearity Tolerance			±5%		
	Resistance Tolerance		20%			
	Sliding Noise			300	mV	
	Withstand Voltage		1		Min	At AC 250V
	Insulated Resistance	100			mΩ	DC250V, 1 minute

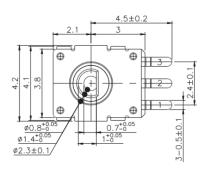
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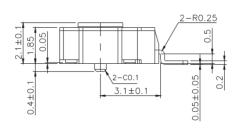
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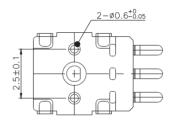
PHS04 Series

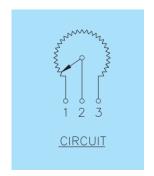


Mechanical Characteristics					
Rotational torque	20mN-m				
Total rotational angle	360°				
Push strength	30 N, 3 sec				
Pull strength	5 N, 3 sec				
Operating temperature	-20°C to 70°C				
Storage temperature	-30°C to 70°C				
Operating life	300,000 (Standard) 1,000,000 (Long life)				
Dry Heat	70±2°C, 240±2hr, -30%≤ ΔTR≤+5%				
Cold	-30±2°C, 300±5hr, without load, ΔTR≤±20%				
Damp Heat	70±2°C, 85%RH, 300±5hr, -5%≤ ΔTR≤+35%				
Temperature Cycle	-10~+70°C, 5 cycles , ΔTR≤±10%				
Temperature Characteristics	70±3°Cn 5hr, -20%≤ΔTR≤+5%				
Soldering Conditions	Wave soldering: 255±5°C 3 sec Manual soldering: 3445±5°C 3 sec				









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ORDERING INFORMATION

