

Contactless

MP1545A/AI



MP1545AS

- > 100 Million Turns Life

- $\pm 0.5\%$ Linearity

- 100° Electrical Angle

Patented inductance coil technology provides high precision, 100 million cycle life in an industry standard 7/8" diameter housing. Completely free from sliding noise. High speed tracking ability.

Electrical Specifications	MP1545A	MP1545AI	MP1545AS
Electrical Angle	$\pm 50^\circ$ (100°)		
Input Voltage	5 VDC (3 - 10 V optional)		
Linearity Tolerance	$\pm 0.5\%$ FS (FS = 100°)		
Temperature Drift	$\pm 2.5\%$ FS / $\pm 0.5\%$ Center position		
Current Consumption	3.5 mA		
Resolution	Infinite		
Load Resistance	> 10k ohms		
Output vs. Input	10% - 90% FS		
Mechanical Specifications			
Mechanical Angle	360° (continuous)		
Life Expectancy	> 100,000,000 turns		
Max. Rotational Speed	40 rpm		
Max. Operating Torque	< 1 mNm	< 3 mNm	< 0.2 mNm
Bearing	sintered - sleeve bearing		ball bearing
Weight	15 grams		
Environmental Specifications			
Operating Temperature	-40°C to +105°C		
Vibration	10 to 2000 Hz, 10G		
Shock	30G, 18 times, 12 hours		
Moisture Resistance	40°C 95%RH 120 hours		
Protection Grade	IP40	IP65	IP40
Materials			
Housing	Metal		
Shaft	Stainless steel		
Mounting	Metal bushing		Servo flange (clamps included)
Wire leads	3 x 26 AWG, 150mm length (RED: +, Black: -, White: Output)		

