



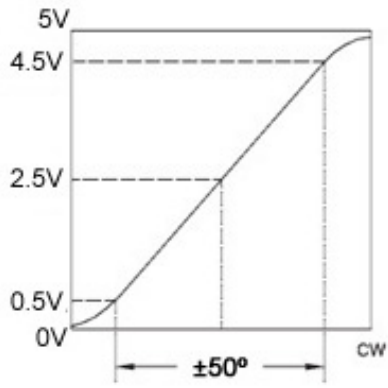
"Contactless"

- > **100 Million Turns Life**
- **±0.5% Linearity**
- **100° Electrical Angle**

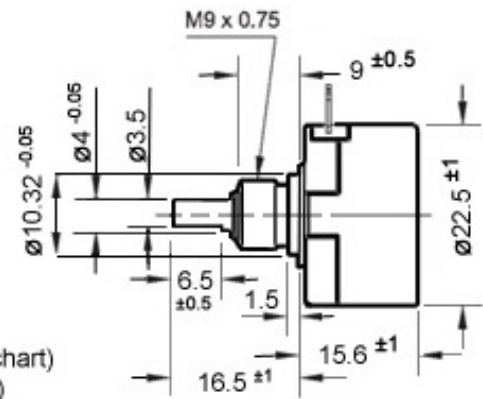
Patented inductance coil technology provides high precision, 100 million turns life in an industry standard 7/8" diameter housing. Completely free from sliding noise. High speed tracking ability.

Electrical Specifications	MP 1545E	MP 1545EI
Electrical Angle	±50° (100°)	
Input Voltage	5 VDC (3 - 10 V optional)	
Linearity Tolerance	±0.5% FS (FS = 100°)	
Temperature Drift	±2.5% FS / ±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 (10gf)	< 3 mNm (30gf)
Bearing	sintered - sleeve 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	IP54
Materials		
Housing	Thermoplast	
Shaft	Stainless steel	
Bushing	Metal	
Terminals	Gold plated	

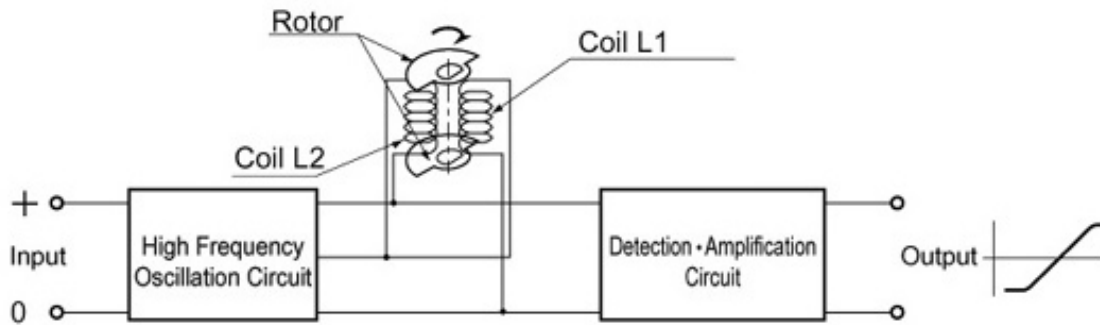
Dimensions (mm)



Pin 1: ground
Pin 2: Output (see chart)
Pin 3: Input (5 VDC)



Operational Schematic



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