



**Oil Filled**

**Heavy Duty**

**IP65 Protection Grade**

- **5 Million Turns Life**
- **5 and 10 Turn Models**
- **±0.25% Standard Linearity**
- **Infinite Resolution**
- **Bushing or Servo Mount**

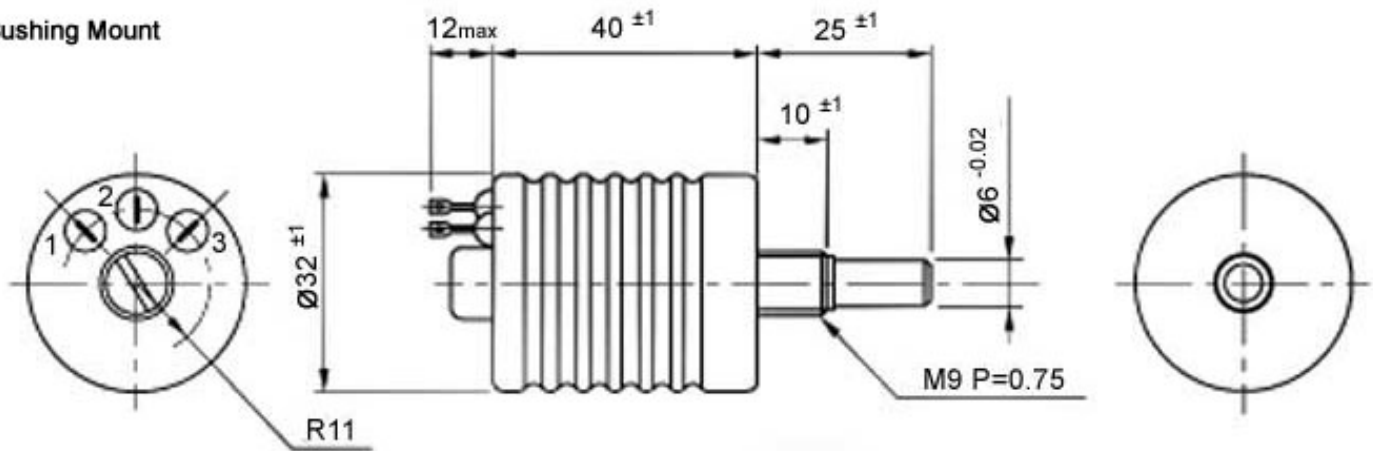
Specifically designed for operation in the worst environmental conditions such as salt, moisture, organic gases, etc. Hybrid element is hermetically sealed and bathed in a special mineral oil that contains no organic substances such as PCB's. Ideal for the marine industry, pits and mines, forestry machinery, chemical factories and any other environmentally challenging application.

Electrical Specifications	OFH3005	OFH3010
Electrical Angle (±5°)	1800°	3600°
Resistance Value (ohms)	2k ~ 100k	
Resistance Tolerance	±10% (±5% opt.)	
Linearity Tolerance (std.)	±0.25%	
Linearity Tolerance (best)	±0.1%	
Max. Voltage (V)	300	
End Resistance	0.1%	
Power @ 40° (W)	2	
Insulation Resistance	>100 Mohm @ 1000 VDC	
Dielectric Strength	1 minute @ 1000 VAC	
Output Smoothness	< 0.015%	
Mechanical Specifications		
Number of Turns	5	10
Mechanical Angle (+10° -0°)	1800°	3600°
Maximum Operating Friction	2 Ncm	
Stopper Strength	90 Ncm	
Life Expectancy	5 million cycles	
Weight (g)	100	
Max. Axial Play of Shaft	0.2 mm	
Max. Radial Play of Shaft	0.1 mm	
Bearing	sleeve (servo mount version = ball bearings)	
Environmental Specifications		
Operating Temperature	-30°C to +60°C	
IP Protection Grade	IP65	
Standard	per MIL-R-12934	

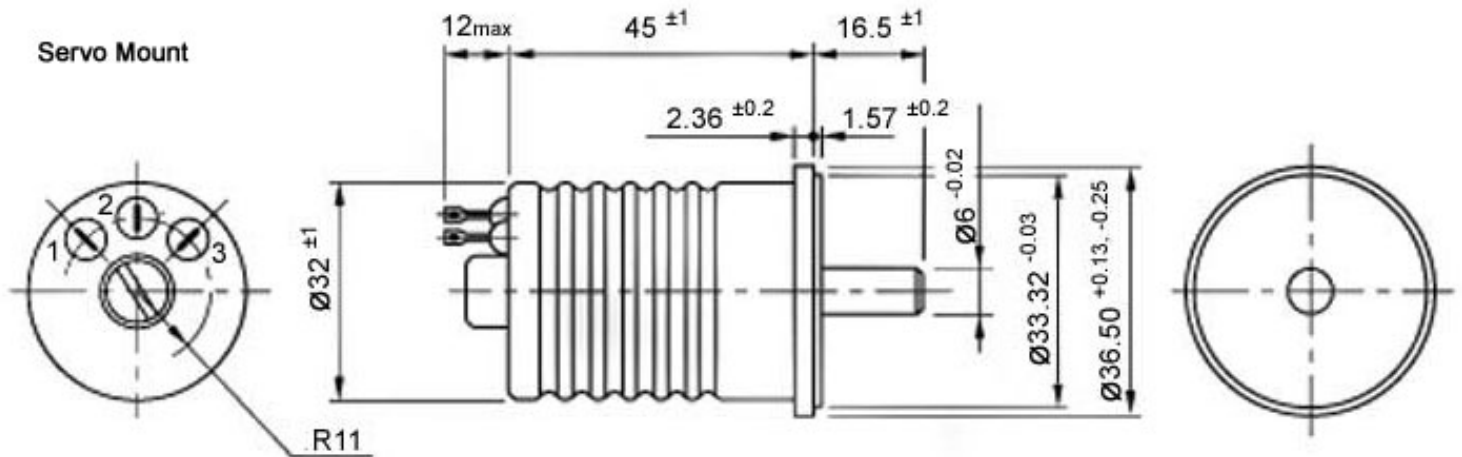
Materials	
Housing	All metal
Shaft	Stainless steel
Bushing	Metal
Terminals	Tin plated - glass filled

**Dimensions (mm)**

**Bushing Mount**



**Servo Mount**



**Options**

- 6.35mm shaft diameter
- Bushing w/inch dimensions
- Extra tap (1 only)
- Special shaft machining
- Non oil filled type
- Servo mount

*P3 America*  
 3089C Clairemont Dr. #363 - San Diego, CA 92117  
 Phone: (858) 277-1420 Fax: (858) 225-0439  
[www.p3america.com](http://www.p3america.com)