Non-contacting Position Sensor

Magnepot 6150

- 7/8" Diameter
- Single Turn
- Non-contacting Position Sensor





Model Styles Available

6153 1/8" Shaft, dual ball bearing	1/8" Shaft, 1/4" Bushing
615x-XXXX	Custom models are available; Contact Customer Service for special features

Electrical

Output Voltage	0.2 Vdc (4%) to 4.8 Vdc (96%) Typical (see Feature Codes table)	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
Output Overvoltage Limits	10 Vdc to -0.3 Vdc; output may be shorted to ground or supply without damage	
Output Current	±8 mA maximum	
Output Load	1 kΩ minimum, 10 kΩ typical	
Input Voltage	4.5 to 5.5 Vdc	
Supply Voltage Absolute Limits	20 Vdc maximum, -10 Vdc minimum	
Independent Linearity ²	±0.5% (0.25% available)	
Hysteresis	0.2% maximum	
Resolution	0.088° for 360° travel, 0.011° for 45° travel	
Supply Current	8.5 mA typical, 12 mA maximum	
Dielectric Strength	750 V rms	
Insulation Resistance	1,000 Megohms minimum	
Electrostatic Discharge (ESD)	Passes 2 kV human body model and 15 kV air discharge	
Bulk Current Injection (BCI)	Passes 2-500 MHz at 200 mA	
Actual Electrical Travel	360° typical (see Ordering Information)	
Temperature Coefficient of Output Voltage ³	± 20 ppm/°C	

Mechanical

Total Mechanical Travel	360° continuous	
Number of Gangs	1 maximum	
Weight	0.4 oz. nominal	
Shaft Runout	maximum T.I.R. 0.003"	
Pilot Diameter Runout	maximum T.I.R. 0.003"	
Lateral Runout	maximum T.I.R. 0.003"	
Shaft Radial Play	maximum 0.005"	
Start/Run Torque	maximum 0.5 ozin.	

1 Specifications subject to change without notice.

2 Linearity is measured between 1% and 99% of input voltage.

3 Measured with 5 VDC supply and 50% of electrical travel

General Note

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.



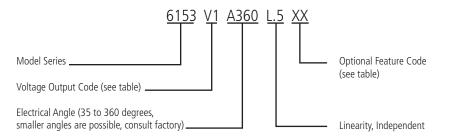
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Environmental

Operating Temperature Range	-40°C to +125°C
Shock	Per MIL R-39023, 6 ms Saw-tooth 100 G's
Vibration	Per MIL R-39023, 10 G's, 100 to 500 Hz
Moisture Resistance, Powered	Per MIL 202G, Method 106G
Rotational Life	50 million shaft revolutions with side load < 0.33 lb, 100 million with side load < 0.25 lb
Storage Temperature Range	-55°C to +125°C

Ordering Information



Feature Codes

Voltage Output Codes		Optional Feature Codes		
VO	\leq 3% to \geq 96%	FS	Flatted Shaft	
V1	4% to 96%	SS	Slotted Shaft	
V2	5% to 95%	LT	Linearity Data	
V3	10% to 90%	CW	Reverse Direction	
V4	15% to 85%			
V5	20% to 80%			

When V0 is used the angle specified is the theoretical angle over which the output would vary if the output could actually reach 0% and 100% of Vcc.

When multiple Optional Feature codes are used the P/N shall be in the same sequence as listed in this table (top to bottom).

General Note

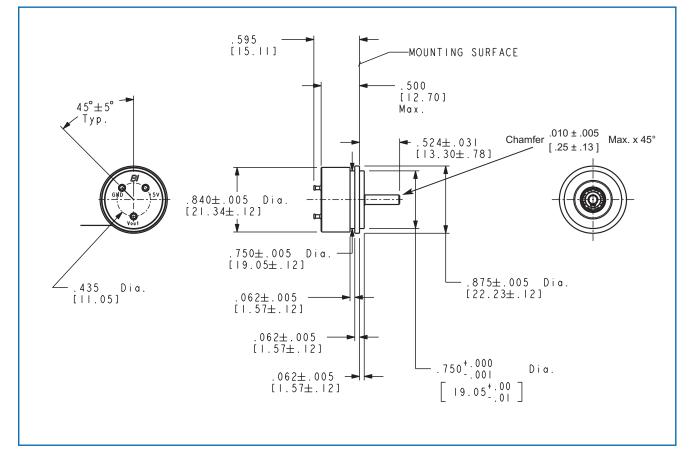
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Outline Drawing





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 SMSA2P30CG
 P2D-000
 GN 55.2-SC-15-3
 GN 55.2-SC-5-3
 MZA70175
 103FW41-R1
 KJR-D100AN-DNA-VE
 KJR-D100AN-DNIA-V2

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 TLE49452LHALA1
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 MRMS591A
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 AH49ENTR-G1
 SS360PT
 SS311PT
 GN 55.2-ND-15-3
 GN 55.2-ND-18-3
 GN 55.2-ND-8-3

 GN 55.2-SC-10-3
 GN 55.4-ND-10-7,5-2
 GN 55.4-ND-12-9,5-2,5
 GN 55.4-ND-26-20,3-5
 GN 55.4-ND-7,5-4-1,5
 101MG7-BP
 A3214LUA-T

 A3214EUA-T
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