Model 970 - 1036

Vishay Spectrol

Industrial Rotary Position Sensor

FEATURES

- Fully “Sealed” Robust Package
- Electrical Connection: AMP Superseal 1.5 Series Connector
- Through Hole D Drive
- Mountable on Both Faces
- Reference Index Indent
- Return Spring Option
- Standard Electrical Resistance (and Custom Options)

The Model 1036 has been specifically developed to operate and maintain high functional performance under harsh environmental conditions. These include: extremes of temperature, continuous vibration, chemical exposure and water immersion. This universal device is fully sealed to ingress protection IP67 providing high mechanical durability and long electrical life. This industrial sensor is suitable for a different variety of applications within the automotive, medical and robotic industries.

ELECTRICAL SPECIFICATIONS	
PARAMETER	
Standard Resistance	5KΩ, ± 20°C
Resistance Tolerance	± 30%
Linearity (Absolute)	± 2%
Electrical Angle	Standard version 200° Continuous rotation version 346°
Output Smoothness	0.5%
Maximum Voltage	30.0VDC
Temperature Coefficient of Resistance	600ppm/°C

MECHANICAL SPECIFICATIONS	
PARAMETER	
Rotation (Options)	190° with mechanical stops 190 with mechanical stops and return spring 360 continuous
Stop Strength	680mNm minimum
Fixed Torque (Recommended)	2-3Nm
Spring Torque	Minimum Return 20Nmm Maximum Wind-up 115 Nmm
Mounting Pitch	41mm

ORDERING INFORMATION	
1036	**0000**
MODEL	VERSION
	0000 Without spring return 0001 With spring return
Example: **1036 - 0000**	0002 Continuous rotation

For technical questions, contact sfer@vishay.com

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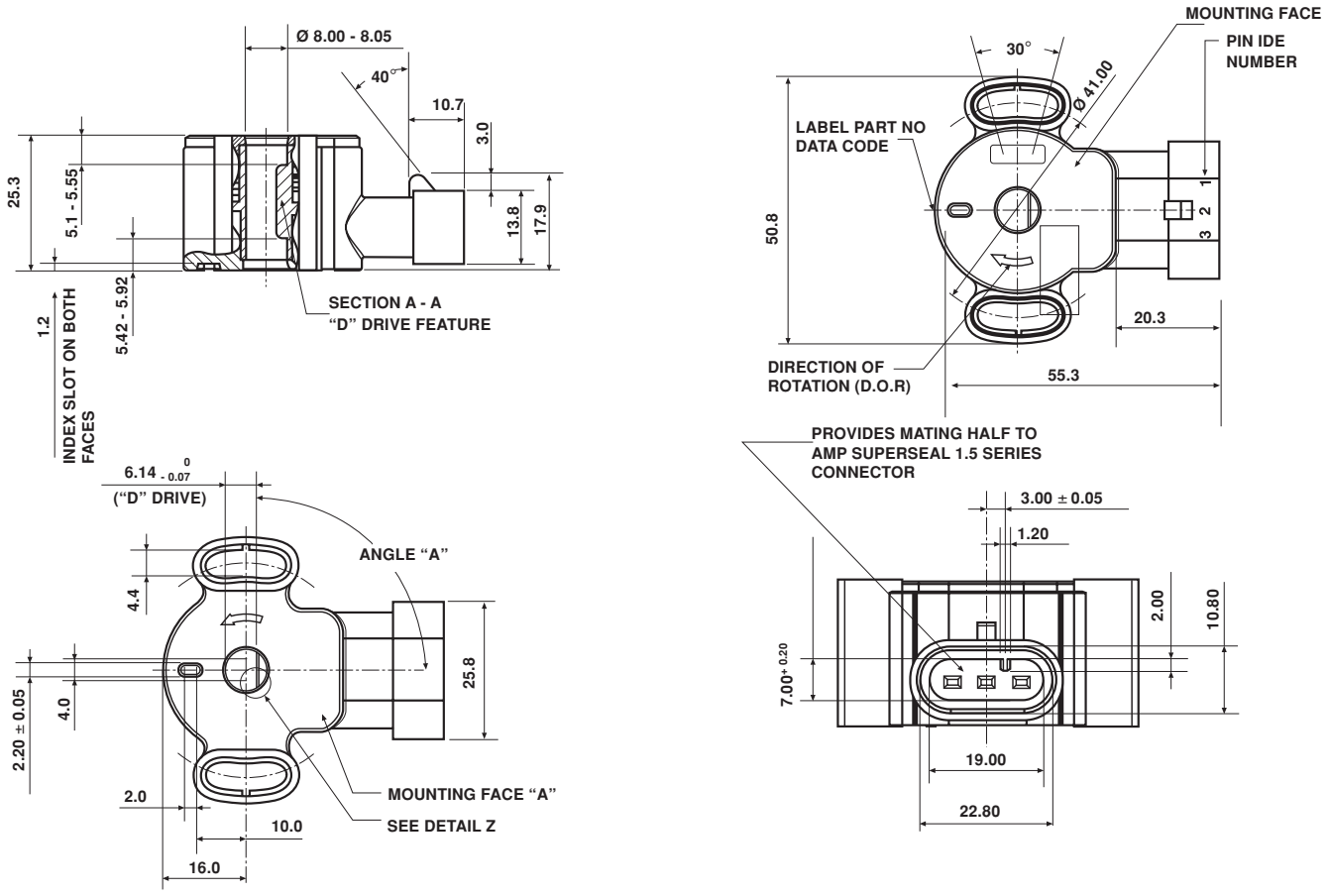
DIMENSIONS in inches (millimeters)



ENVIRONMENTAL SPECIFICATIONS	
PARAMETER	
Vibration	15g thru 2000Hz
Shock	50g
Rotational Life	5,000,000 full cycles 10,000,000 dither cycles (second rotation)
Load Life	900 Hours
Temperature Range	- 40°C to + 130°C
Sealing	IP67
Humidity	96% @ 40°C (500 Hrs)
Salt Spray	5% Solution @ 40°C (300 Hrs)

MARKING	
Unit Identification	Manufacturer's name and model number, resistance value, tolerance, data code and terminal identification

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