

# Honeywell Sensing and Control



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## 640ES103A06NAAY



Actual product appearance may vary.

**TH100 Rotary Position Transducer, 90 degrees Mechanical Travel, 10,000 Ohms Resistance value**

### Features

- Long rotational life
- Economical package
- Sealed construction
- High rotational torque

### Potential Applications

- Marine controls
- Off-road vehicles

### Description

The TH100 Series puts Honeywell's proven variable-resistor technology to work in angle-management applications such as control-lever sensing and equipment position feedback. High performance and low cost make it attractive for a wide range of applications. Special electrical and mechanical configurations, including dual tracks, D-shape rotor holes, etc. are available on special order.

### Supporting Documentation

[Dimensions](#)

Product Specifications	
Supply Voltage	350 Vdc max.
Measurement Type	Rotary
Housing Size	39,47 mm [1.55 in] x 45,72 mm [1.8 in]
Total Mechanical Travel	90°
Electrical Travel	80°
Linearity	± 5 %
Shaft Material	Plastic
Shaft Diameter	6,35 mm [0.25 in] thru hole with 2,67 mm [.105 in] wide x 2,29 mm [.09 in] diameter slot
Element Type	Conductive plastic
Housing Type	Plastic
Termination	Three 20 AWG, 152,4 mm [6.0 in] wire leads
Operating Temperature	-40 °C to 120 °C [-40 °F to 248 °F]
Vibration	15 g at 50 Hz to 1000 Hz
Shock	50 g half sine
Operating Life	One million full cycles

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Resistance Tolerance	± 15 %
Dielectric Strength	500 V rms
Sealing	Withstands hose-directed water spray and immersion at limited depth
UNSPSC Code	41111937
UNSPSC Commodity	41111937 Rotary position sensors
Availability	Global
Comments	0.5 W max. Power Rating
Series Name	TH100