

Honeywell



PART SEARCH:

HONEYWELL.COM
HOME
PRODUCTS
INDUSTRIES
EXTRANETS
SUPPORT

[Where to buy ?](#)
[Interactive Catalog Home](#)
[Product Family Information](#)
[Specification Search](#)
[Search Help](#)


*Representative photograph, actual product appearance may vary.*

[Dimensions](#)
[Specifications](#)

[Click here for a print friendly version of this datasheet.](#)

## 640CS103A06NAAY

**TH100 Rotary Position Transducer, 180 degrees Mechanical Tr  
10,000 Ohms Resistance value**

### Features

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

### Typical Applications

- Marine controls
- Off-road vehicles

### Description

The TH100 Series puts Honeywell's proven variable-resistor technology work in angle-management applications such as control-lever sensing 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.

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	180°
Electrical Travel	170°
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
Type of Element	Conductive plastic
Housing Style	Plastic
Termination	Three 20 AWG, 152,4 mm [6.0 in] wire leads
Operating Temperature Range	-40 °C to 120 °C [-40 °F to 248 °F]
Vibration	15 g at 50 Hz to 1000 Hz
Shock	50 g half sine

<b>Operating Life</b>	one million full cycles
<b>Total Resistance</b>	10,000 Ohms
<b>Resistance Tolerance</b>	± 15 %
<b>Dielectric Strength</b>	500 V rms
<b>Sealing</b>	Withstands hose-directed water spray and immersion at limited
<b>UNSPSC Code</b>	41111937
<b>UNSPSC Commodity</b>	41111937 Rotary position sensors
<b>Availability</b>	Global
<b>Comments</b>	0.5 W max. Power Rating
<b>Series Name</b>	TH100 Series

*Due to regional agency approval requirements, some products may not be available in your area.  
Please contact your regional Honeywell office regarding your product of choice.*

[\*Top of Page\*](#)

---

© [Copyright Honeywell Inc.1998 - 2004 All rights reserved.](#)

Please send comments to [webmaster.sc@honeywell.com](mailto:webmaster.sc@honeywell.com)