

## **Features**

- Non-contacting HE and/or MR technology
- Connector for flying lead solution
- Electronic calibration
- Production-proven design
- Absolute or incremental solution

# **Applications**

- Actuated boot door position sensor
- Actuated rear door position sensor
- Actuated side door position sensor
- Pedal box position sensor
- Seat position sensor

# **Hollow Shaft Position Feedback Sensor**

#### **General Function**

The Bourns® Hollow Shaft Position Feedback Sensor is a robust, reliable, and highly accurate non-contacting position sensor. This sensor offers an extremely low profile and the ability to mount on a shaft. The sensor can be used on any spindle gear or shaft drive mechanism for applications such as actuated door closure systems. The sensor's output can be configured to provide an absolute or incremental output. It is capable of resolving 360 degrees of motion with high accuracy and 12 bit resolution in a small, robust package. The incremental sensor version does not require a gear drive to establish position.

Please note that this document refers to general product specifications which are subject to change.

#### **Typical Specifications**

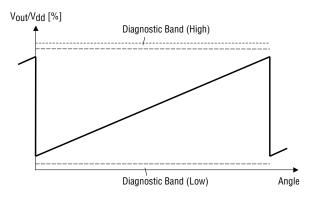
Specification	Min.	Тур.	Max.
Measurement Range			
absolute (turns)	6	12 to 15	24
incremental		infinite	
Non-Linearity *			
absolute		depends on gear	
		drive/ratio	
incremental		no. of pulses <12,	
		depending on	
		shaft diameter	
Hysteresis		t.b.d. *	
Angular Resolution			
absolute		0.2 %	
incremental		depends on no.	
		of pulses	
Angular Velocity			
absolute		1.500 °/s	
incremental		10.000 rpm	
Delay after Start-up			15 ms
Temperature Range	-40 °C		+85 °C
Input Voltage		5 V +/- 10 %	
Nominal Voltage		5 V	
Nominal Current		<20 mA	
Signal Range			
absolute		10 90 % **	
IP			up to
			69k ***



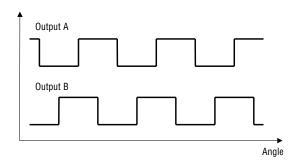
<sup>\*\*</sup> depends on programmable diagnostic ranges

## **Typical Output**

#### **Absolute Output Signal**



### **Incremental Output Signals**



# **BOURNS**®

# **Automotive Division**

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<sup>\*\*\*</sup>others available upon customer request