

## FEATURES

- ❑ Digital Codes Available:
  - Incremental: Quadrature
  - Absolute: Gray
- ❑ Up to 96 Pulses Per Revolution (PPR)
- ❑ Analog Resistive Output For Use As A Potentiometer
- ❑ 5K And 10K Resistive Element Standards
- ❑ High Temperature Materials Meet 85°C Requirements
- ❑ Push-button Feature Allows Dual Function With Single Shaft Input

The OakGrigsby 700 Series is the economical solution to virtually any digital encoder or potentiometer requirement. As the latest version in our new generation of rotary encoder products, the 700 Series has been freshly tooled to include resistive analog output for potentiometer applications, as well as the standard digital code for direct interface with a microprocessor. The .890" package enhances the original design concept, delivering high performance and quality levels in triple digit PPMs.

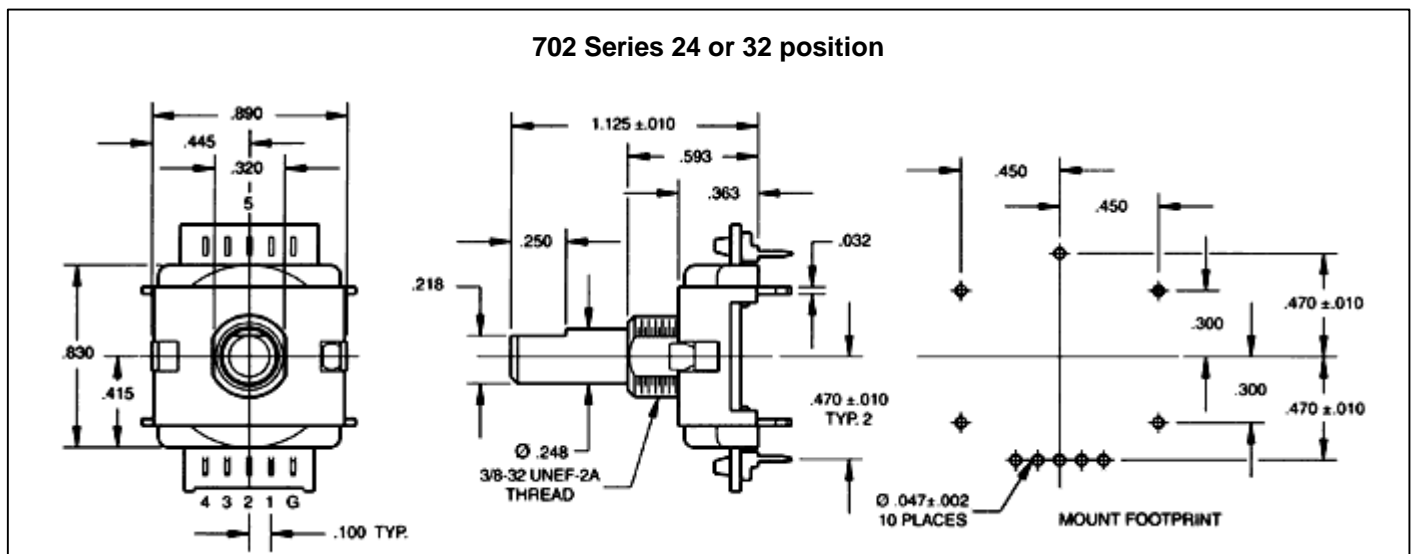
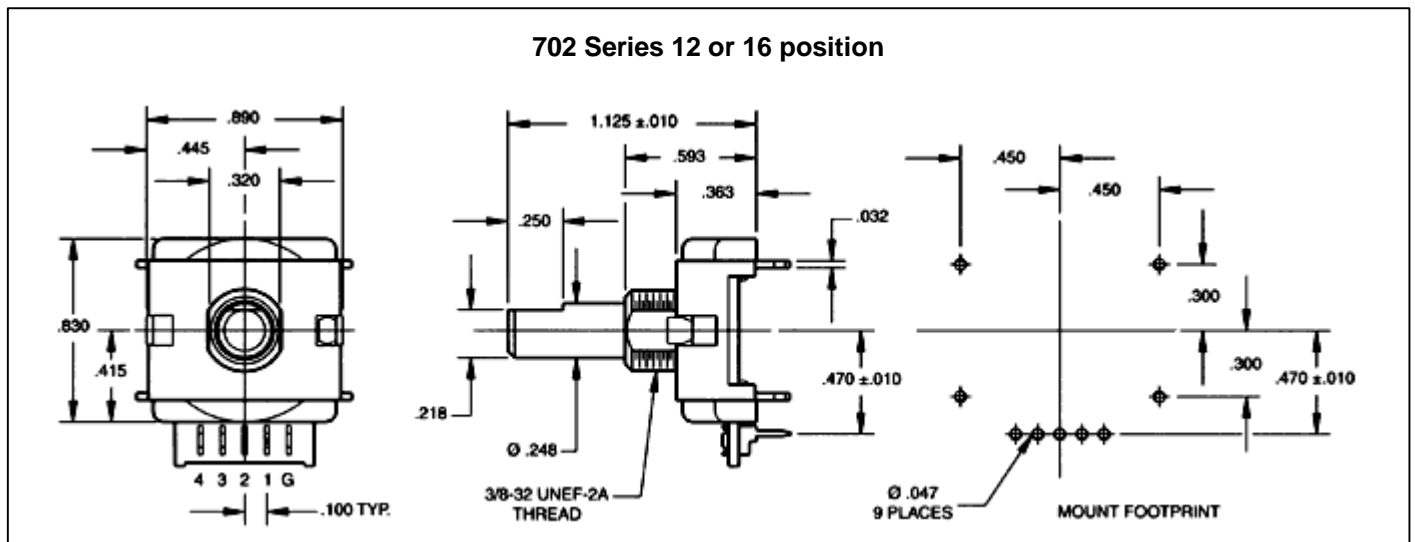
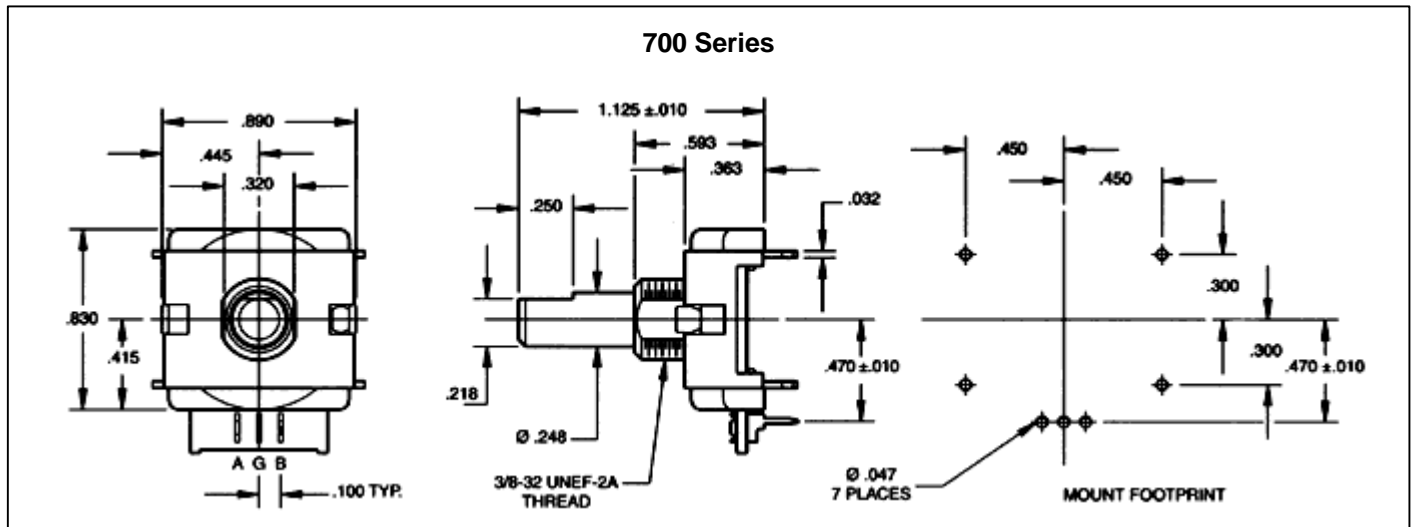
OakGrigsby leads the market in rotational torque management for encoders. Our process includes digital maps to ensure repeatable and quantitative measurement.

Newly introduced in the 700 Series is an integrated push-button, which permits two functions in a single shaft. This feature provides system cost savings and a user-friendly interface for input selection. The push-button feature is offered in the same package size as the standard 700, with a complete interface for scrolling through a menu and making a selection.

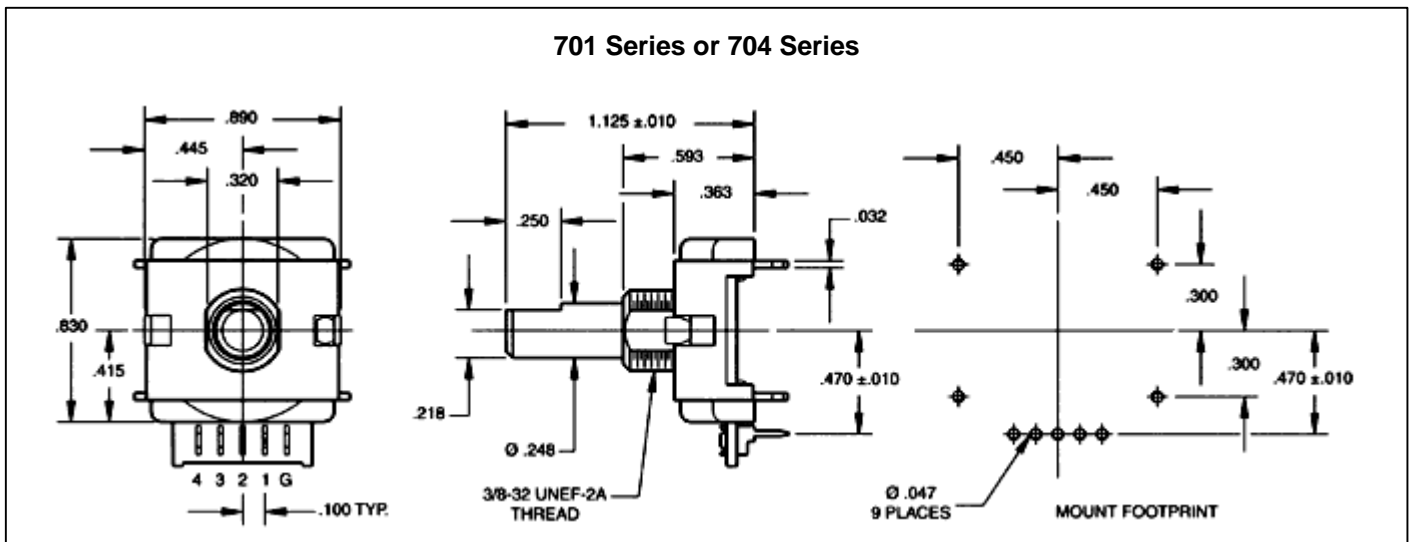
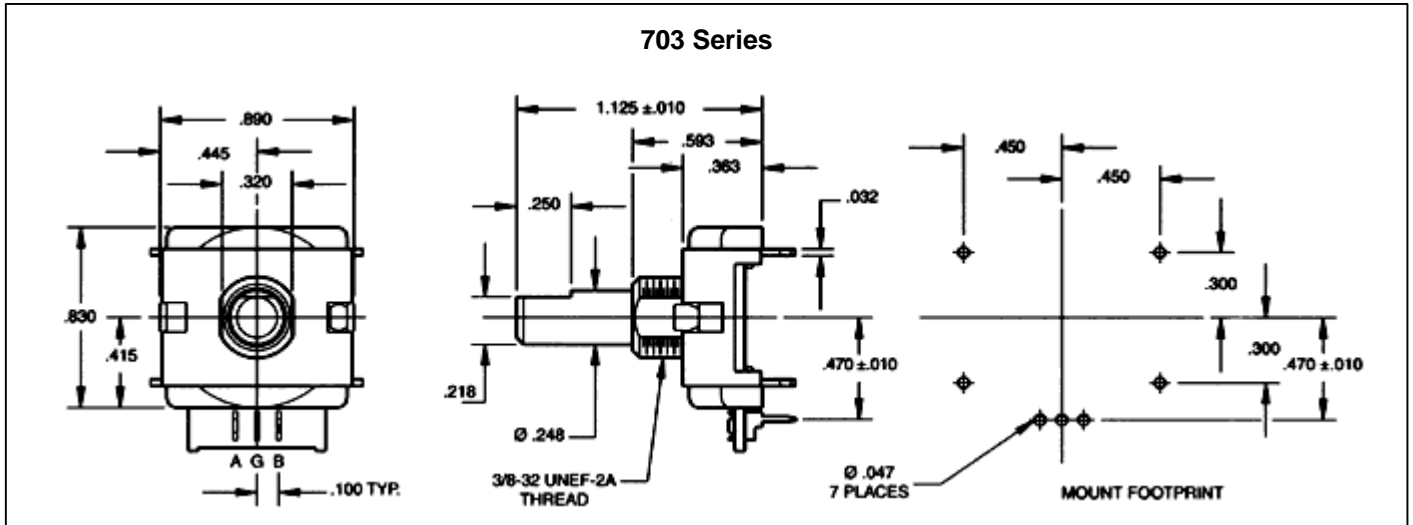
The 700 Series features a wide range of standard configurations to fulfill most needs. As with standard product, customized versions for volume applications also benefit from OakGrigsby's cost-effective, automated production processes to build in quality performance.

**See Pages 2 & 3 for Configurations**  
**See Page 4 for Specifications**  
**See Page 5 for Truth & Output Tables**  
**See Page 6 for Ordering**

# CONFIGURATIONS



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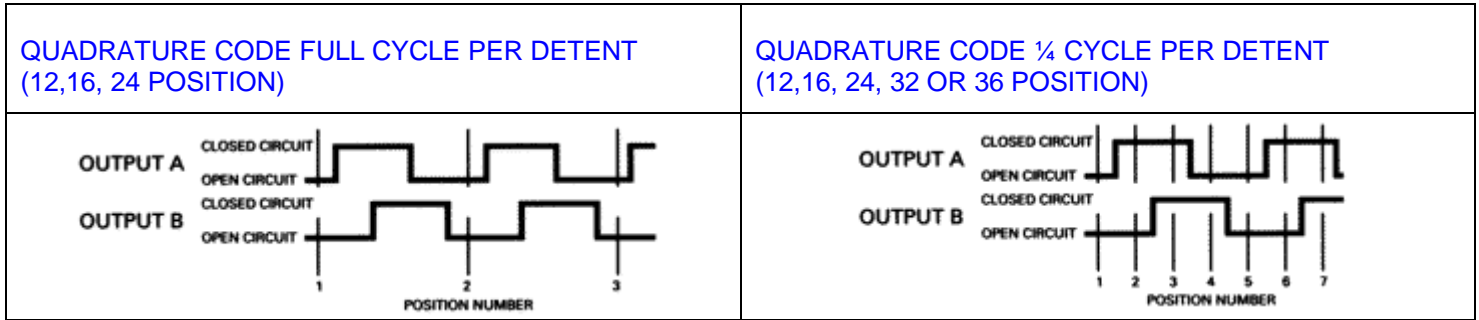


## SPECIFICATIONS

### Electrical/Mechanical Characteristics

Current Carrying Capacity	Resistive 0.5 watt
Switching Load	5mA at 14 VDC
Shock/Humidity	MIL-STD 202E
Contact Resistance	1 ohm typical
Contact Bounce	5 ms @ 15 RPM
Code	Resistive, Quadrature, Gray
Operating Forces	16 position = 7.5 in.-oz $\pm$ 20%, 36 position = 4.5 in.-oz. $\pm$ 20%
Life	50,000 cycles (50% loss in torque over life. High temperature operation will reduce detent life.)
Operating Temperature	-40 °C to +85 °C
Detent Angles	30°, 22.5°, 15°, 11.25°, 10°
Push-Button Characteristics	Stroke: .065 $\pm$ .015
	Push-Button Force: 15 oz. max.
	Push-Button Resistance: 80 ohms max.
	Torque: 12, 24 position = 1.6 $\pm$ .3 in.- oz.
	Torque: 16 position = 2 $\pm$ .3 in.-oz.
	Torque: 32, 36 position = 1.2 $\pm$ .3 in.-oz.
	Contact Bounces: 5 ms max. @ 15 RPM
	Push-Button Life: minimum 250,000 operations

## TRUTH & OUTPUT TABLES



<p style="color: blue;">QUADRATURE CODE FULL CYCLE 12, 16, 24 POSITION</p>	<p style="color: blue;">QUADRATURE CODE ¼ CYCLE ALL POSITION</p>	<p style="color: blue;">GRAY CODE 16 POSITION (*)</p>	<p style="color: blue;">GRAY CODE 32 POSITION (**)</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																
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		<p>* 12 position gray code is the same as a 16 position without positons 11 - 14.</p>	<p>* 24 position gray code is the same as a 32 position without positons 21 - 28.</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																

• indicates logic flow

# ORDERING

## Ordering the 700 Series Encoder

701	Code	08	Electrical Cycles or Resistive Value	32	Number of Detent Positions
	<b>700:</b> Quadrature		<b>700:</b> 06, 08, 09, 12, 16, 24, 32, or 36		<b>700:</b> 12, 16, 24, 32, 36 or 00: No Detents
	<b>701:</b> Quadrature with Push-button		<b>701:</b> 6, 08, 09, 12, 16, 24, 32 or 36		<b>701:</b> 12, 16, 24, 32, 36 or 00: No Detents
	<b>702:</b> Absolute		<b>702:</b> 01		<b>702:</b> 12, 16, 24 or 32
	<b>703:</b> Resistive		<b>703:</b> 05K or 10K		<b>703:</b> 00: No Detents
	<b>704:</b> Resistive with Push-button		<b>704:</b> 05K or 10K		<b>704:</b> 00: No Detents

## 700 Series Standard Offerings

700-09-36	701-08-32	702-01-12	703-05-00	704-05-00
700-16-16	701-09-36	702-01-16	703-10-00	704-10-00
700-24-24	701-04-16	702-01-24		
	701-06-24			