

Features

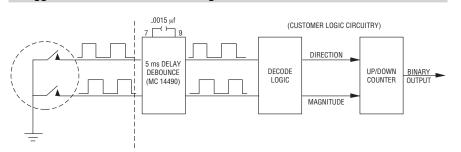
- Miniature package for design flexibility
- Long operating life
- Conductive plastic element
- Bushing or PC board mount
- Quadrature output
- RoHS compliant*



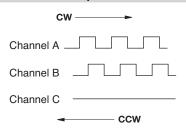
3315 - 9 mm Square Sealed Incremental Encoder

Electrical Characteristics	
Output	2-bit quadrature code, Channel A leads Channel B electrically turning clockwise (CW)
Closed Circuit Resistance	5 ohms maximum
Contact Rating	TTL compatible loads
Insulation Resistance (500 VDC)	
Dielectric Withstanding Voltage	
Sea Level	900 VAC minimum
Electrical Travel	
Contact Bounce	
RPM (Operating)	120 maximum
Environmental Characteristics	
Operating Temperature Range	40 °C to +125 °C (-40 °F to +257 °F)
Storage Temperature Range	55 °C to +125 °C (-67 °F to +257 °F)
Humidity	MIL-STD-202, Method 103B, Condition B
Vibration	30 G
Contact Bounce	
Shock	100 G
Contact Bounce	
Rotational Life	
	25,000 cycles @ 16 PPR
IP Rating	
Mechanical Characteristics	
Mechanical Angle	360 ° Continuous
Running Torque	
Mounting Torque	
Plastic Bushing	
Metal Bushing	
Weight	
Terminals	Solderable pins
Soldering Condition	
	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire; 370 °C (700 °F) max. for 3 seconds
	For recommended wash processes, please refer to http://www.bourns.com/pdfs/sldclen.pdf
	Manufacturer's trademark, part number, and date code
HardwareOne lockwasl	ner and one mounting nut are shipped with each encoder, except where noted in the part number.

Suggested Incremental Control Diagram



Quadrature Output Table



^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

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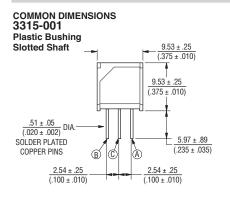
BOURNS

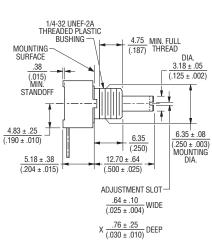
How to Order						
	3315	Υ -	0 0	1 -	006) L
Model Number Designator ————————————————————————————————————						
Terminal Style Designator C = In-line Straight Terminals Side Exit R = In-line Terminals Rear Exit P = 5.08 mm x 2.54 mm Triangular Pattern Rear Exit Y = 5.08 mm x 5.08 mm Triangular Pattern Rear Exit						
Shaft End Designator 0 = Shaft End Slotted 1 = Shaft End Flatted			1			
Shaft Length Designator 0 = 12.7 mm FMS Long Plastic Shaft (Available w/bushing only) 1 = 19.05 mm FMS Long Plastic Shaft (Available w/bushing only) 2 = 5.59 mm FMS (Bushingless version only)						
Bushing Designator 1 = 6.35 mm x 6.35 mm Plastic 2 = 6.35 mm x 6.35 mm Ni Plated Brass 5 = Bushingless (Board Level)						
Pulses per Revolution Code 006 = 6 PPR 016 = 16 PPR						
RoHS Identifier — L = Compliant						

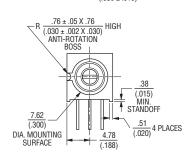
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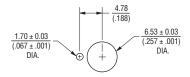
Product Dimensions

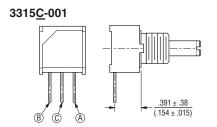


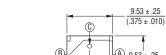




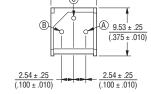
MOUNTING HOLE PATTERN

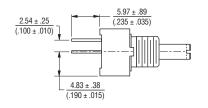




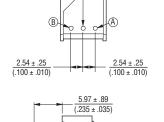


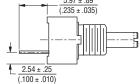
3315P-001

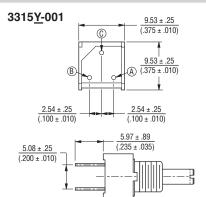








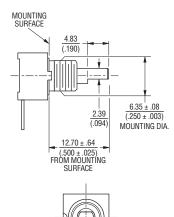




2.54 ± .38

 $(.100 \pm .015)$

COMMON DIMENSIONS 3315C-101 Plastic Flatted Shaft



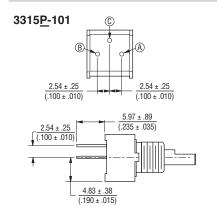


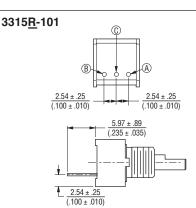
DIMENSIONS: $\frac{MM}{(INCHES)}$

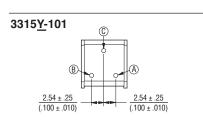
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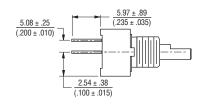
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Product Dimensions

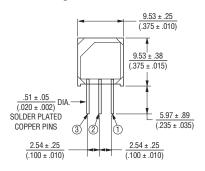


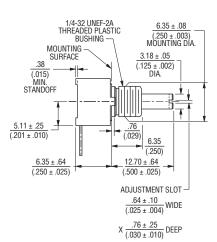


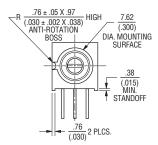


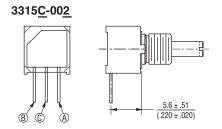


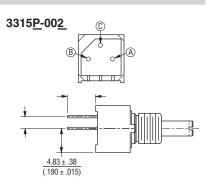
COMMON DIMENSIONS 3315-002 Metal Bushing

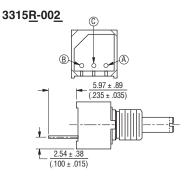


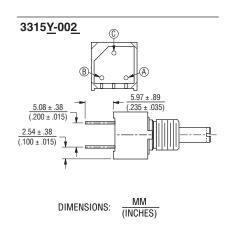












Product Dimensions

