

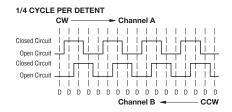
Features

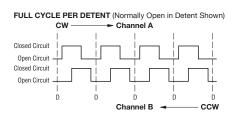
- Incremental encoder / quadrature output
- Exceptionally long operating life
- Sturdy construction
- Bushing mount
- Available with PC board mounting bracket (optional)

ECW - Digital Contacting Encoder

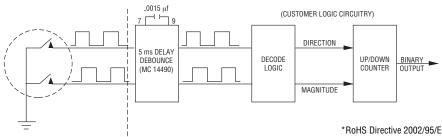
Electrical Characteristics	
Closed Circuit Resistance	2-bit quadrature code, Channel A leads Channel B by 90 ° electrically turning clockwise (CW)
Environmental Characteristics	
Storage Temperature Range Humidity Vibration Contact Bounce. Shock Contact Bounce Rotational Life	-40 °C to +85 °C (-40 °F to 185 °F) -40 °C to +85 °C (-40 °F to +185 °F) -40 °C to +85 °C (-40 °F to +185 °F) MIL-STD-202, Method 103B, Condition B 15 G 0.1 millisecond maximum 50 G 0.1 millisecond maximum 200,000 shaft revolutions IP 40
Mechanical Characteristics	
Running Torque (Detented)	Continuous
	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire 370 °C (700 °F) max. for 3 seconds
Marking	

Quadrature Output Table – This table is intended to show available outputs as currently defined.





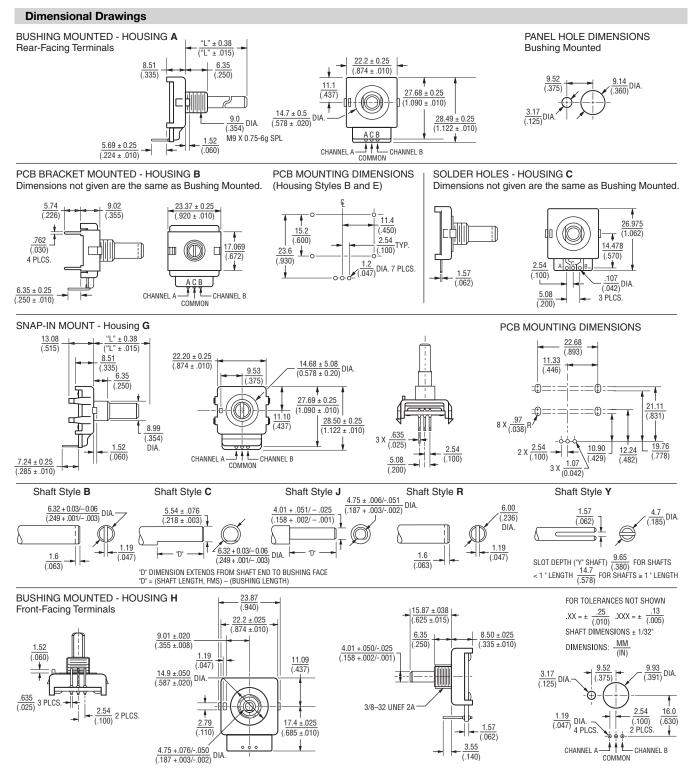
RECOMMENDED INCREMENTAL CONTROL DIAGRAM FOR USE WITH A DEBOUNCE CIRCUIT



*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications

ECW - Digital Contacting Encoder

BOURNS



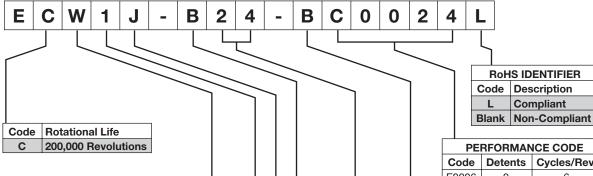
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Customers should verify actual device performance in their specific applications

ECW - Digital Contacting Encoder

How to Order





BUSHING CONFIGURATION				
Code	Description			
W	9 mm x 1/4 " Length. Threaded M9x0.75			
L	9 mm x 3/8 " Length. Threaded M9x0.75			
	(Use B shaft only.)			
Т	9 mm x 1/4 ". No Thread.			

SWITCHING CONFIGURATION (In Detent Position) Applies to performance codes B0012 and C0024 only, use code "0" for all other performance codes.

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Code	Description
0	Not Applicable
1	Normally Open

ANTI-ROTATION LUG POSITION				
Code	Description			
J	9:00 Position			
D	None			

SHAFT STYLE (See Outline Drawing for Details)			
Code	Description		
В	Plain with Inserted Slot (1/4 " Dia.)		
С	Single Flatted (1/4 " Dia.)		
R	Plain with Inserted Slot (6 mm Dia.)		
Υ	Split Shaft Version (.185 " Dia.)		
J	Flatted Shaft (3/16 " Dia.)		

The sample part number demonstrates the identification code for Bourns contacting encoders.

Boldface features are Bourns standard options. All others are available with higher minimum order quantities.

PERFORMANCE CODE						
Code	Detents	Cycles/Rev.				
E0006	0	6				
E0009	0009 0 9					
E0012 0 12		12				
E0024	0	24				
E0036	0 36					
B0012	012 12 12					
C0006	24	6				
C0024	24	24				
D0009	36	9				

Compliant

HOUSING TERMINAL CONFIGURATION (X indicates "Equipped With"									
Code									
Features	Α	В	С	D	Е	F	G*	Н	K
Terminal Cover	Х	Х			Х		Х		
Rear-Facing Terminals	Х	Х			Х		Х		
Solder Holes			Х	Х		Х			
PCB Bracket		Х		Х	Х	Х			
Hardware Included	Х		Х		Х	Х		Х	
Snap-In Mount							Х		
Forward-Facing Terminals								Χ	Χ

*Bushing code T only.

SHAFT LENGTH (FMS)					
		Available			
Code	Description	Shaft Styles			
16	1/2 " Length	В			
20	5/8 " (15.9 mm) Length	J			
24	3/4 " (19 mm) Length	B, C, J, Y			
28	7/8 " (22.2 mm) Length	B, C, J, Y			
32	1 " (25.4 mm) Length	B, C, J, Y			
36	1-1/8 " (28.6 mm) Length	B, C, J, Y			
	Metric				
19	19 mm Length	R			
22	22 mm Length	R			
24	24 mm Length	R			