

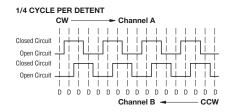
Features

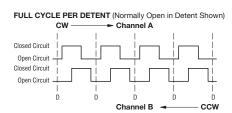
- Incremental encoder / quadrature output
- Exceptionally long operating life
- Sturdy construction
- Bushing mount
- Available with PC board mounting bracket (optional)
- RoHS compliant*

ECW - Digital Contacting Encoder

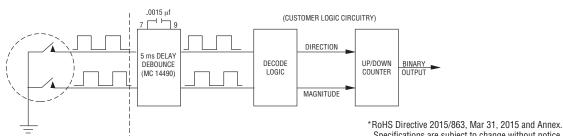
Electrical Characteristics	
Output	2-bit quadrature code, Channel A leads Channel B by 90 ° electrically turning clockwise (CW)
Contact Rating	10 milliamp @ 10 VDC or 0.1 watt maximum
	1,000 megohms minimum
Dielectric Withstanding Voltage (MIL-STD-202 Method	
Sea Level	
	5 milliseconds maximum
Phase Tolerance (CH A to CH B)	90 ° ± 72 °
Environmental Characteristics	
	-40 °C to +85 °C (-40 °F to 185 °F)
	-40 °C to +85 °C (-40 °F to +185 °F)
Humidity	
Vibration	15 G
	50 G
IP Rating	
Mechanical Characteristics	
Mechanical Angle	
Running Torque (Detented)	
	4.5 kg (10 lbs.) minimum
Terminals	PC pin or solder lug
Soldering Condition	
Manual Soldering	
	370 °C (700 °F) max. for 3 seconds
Wave Soldering	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux
	260 °C (500 °F) max. for 5 seconds
Wash processes	
	Manufacturer's name and trademark, part number, and date code.
HardwareOne lockwast	ner and one mounting nut are shipped with each encoder, except where noted in the part number.

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





RECOMMENDED INCREMENTAL CONTROL DIAGRAM FOR USE WITH A DEBOUNCE CIRCUIT



WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

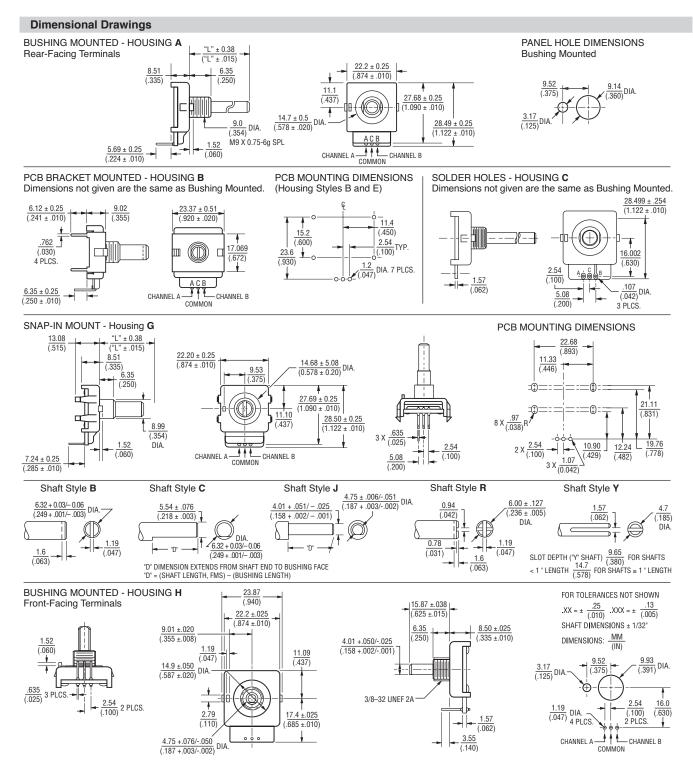
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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ECW - Digital Contacting Encoder

BOURNS



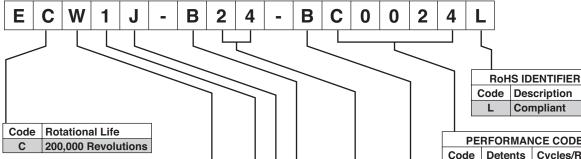
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Users should verify actual device performance in their specific applications.

ECW - Digital Contacting Encoder

How to Order

PART NUMBERING SYSTEM



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

only, use code "o" for all other performance codes.				
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 B Plain with Inserted Slot (1/4 " Dia.) C Single Flatted (1/4 " Dia.) R Plain with Cross Slot (6 mm Dia.) Y Split Shaft Version (.185 " Dia.)					
B Plain with Inserted Slot (1/4 " Dia.) C Single Flatted (1/4 " Dia.) R Plain with Cross Slot (6 mm Dia.) Y Split Shaft Version (.185 " Dia.)	SHAFT STYLE (See Outline Drawing for Details				
C Single Flatted (1/4 " Dia.) R Plain with Cross Slot (6 mm Dia.) Y Split Shaft Version (.185 " Dia.)	Code	Description			
R Plain with Cross Slot (6 mm Dia.) Y Split Shaft Version (.185 " Dia.)	В	Plain with Inserted Slot (1/4 " Dia.)			
Y Split Shaft Version (.185 " Dia.)	С	Single Flatted (1/4 " Dia.)			
1 Opin Orian Volsion (.100 Bia.)	R	Plain with Cross Slot (6 mm Dia.)			
L Flatted Shaft (3/16 " Dia)	Υ	Split Shaft Version (.185 " Dia.)			
b Hatted Shart (6/16 Bla.)	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.

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		С	ode	÷	Dete	ent	ts	Cycles/Rev.								
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		E	000	9	()		9								
		E	001	2	()			1	2						
		E	002	4	()			2	24						
		E	003	6	()			3	86						
		B	001	2	1	2			1	2						
			000	_	2	24		6								
		C	002	4		_			2	24						
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Terminal Cover					X	X			X	•	X	••	-	1		
Rear-Facing Terminals				Х	X			Х		Х			1			
Sold	Solder Holes						Х	Χ		Χ						
PCB Bracket					Х		Х	Х	Χ							
Hardware Included				Χ		Х		Х	Х		Х					
Coon In Marriet									V			1				

Χ Χ

*Bushina	code T	onlv.

Forward-Facing Terminals

Snap-In Mount

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			

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