

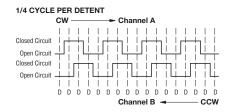
Features

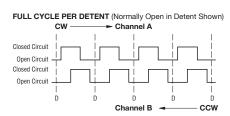
- Incremental encoder / quadrature output
- Exceptionally long operating life
- Sturdy construction
- Bushing mount
- Available with PC board mounting bracket (optional)
- RoHS compliant*

ECW - Digital Contacting Encoder

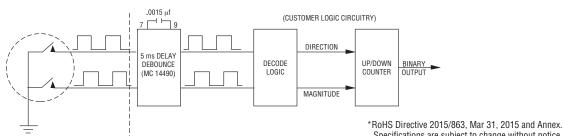
Electrical Characteristics	
Output	2-bit quadrature code, Channel A leads Channel B by 90 ° electrically turning clockwise (CW)
Closed Circuit Resistance	5 ohms maximum
	100 K ohms minimum
	10 milliamp @ 10 VDC or 0.1 watt maximum
Dielectric Withstanding Voltage (MIL-STD-202 Method	
	90 ° ± 72 °
,	
Environmental Characteristics	
	-40 °C to +85 °C (-40 °F to 185 °F)
Storage Temperature Range	-40 °C to +85 °C (-40 °F to +185 °F)
	IP 40
Mechanical Characteristics	
	0
	4.5 kg (10 lbs.) minimum
	Approximately 21 gms. (0.75 oz.)
	PC pin or solder lug
Soldering Condition	
Manual Soldering	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire
-	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
Marking	Manufacturer's name and trademark, part number, and date code.
HardwareOne lockwas	sher 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

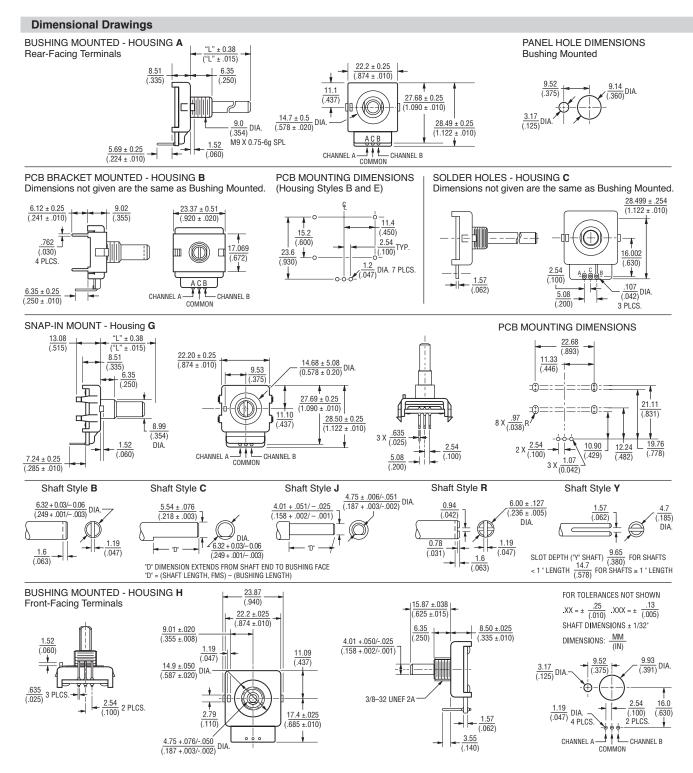
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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ECW - Digital Contacting Encoder

BOURNS



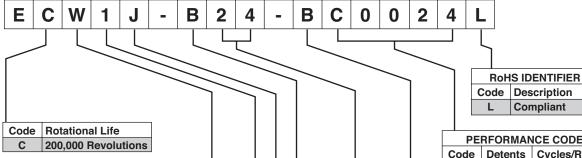
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ECW - Digital Contacting Encoder

How to Order

PART NUMBERING SYSTEM



BUSHING CONFIGURATION					
Code	Description				
W	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

Code Description	only, use code of 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				
В	Plain with Inserted Slot (1/4 " Dia.)				
С	Single Flatted (1/4 " Dia.)				
R	Plain with Cross 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.

DEM	04/4	E /00
REV.	U4/ I	5/20

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

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

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				

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