

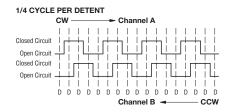
Features

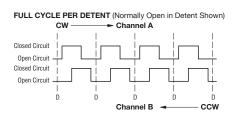
- Incremental encoder / quadrature output
- Exceptionally long operating life
- Sturdy construction
- Bushing mount
- Available with PC board mounting bracket (optional)
- RoHS compliant*

ECW - Digital Contacting Encoder

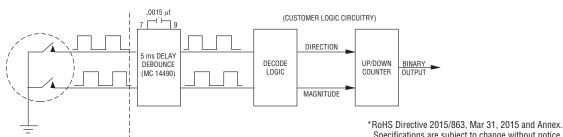
Electrical Characteristics	
Output	2-bit quadrature code, Channel A leads Channel B by 90 ° electrically turning clockwise (CW)
	5 ohms maximum
	100 K ohms minimum
	1,000 megohms minimum
Dielectric Withstanding Voltage (MIL-STD-202 Method	
	90 ° ± 72 °
,	
Environmental Characteristics	10.00 / 00.00 / 00.00 / 00.00
	-40 °C to +85 °C (-40 °F to 185 °F)
,	
IP Rating	IP 40
Mechanical Characteristics	
Mechanical Angle	
0 1	
Soldering Condition	PC pin or solder lug
Manual Soldering	
Wandar Goldening	370 °C (700 °F) max. for 3 seconds
Wave Soldering	
	260 °C (500 °F) max. for 5 seconds
Wash processes	
Marking	Manufacturer's name and trademark, part number, and date code her 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

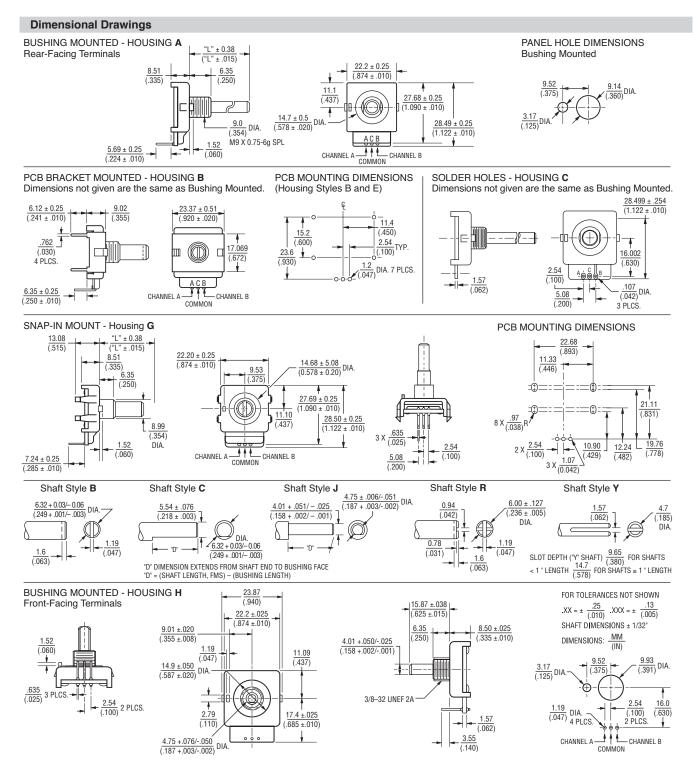
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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ECW - Digital Contacting Encoder

BOURNS



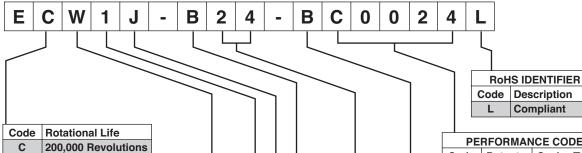
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ECW - Digital Contacting Encoder

How to Order

PART NUMBERING SYSTEM



BUSHING CONFIGURATION				
Code	Description			
W	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			
0	Not Applicable			
1	Normally Open			

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

S	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			
E0012 0		12			
E0024	0	24			
E0036	0	36			
B0012	30012 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	Χ	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		Χ	
Snap-In Mount							Х		
Forward-Facing Terminals								Χ	Χ
*Buching code T only									

Bushing code T only.

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

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ELW0J-R29-AE0012 ELW0J-C24-BE0024 ECW1J-B28-CC0024 ECW1D-C24-BC0024L ECL0D-B32-EC0006L
ECL1J-B24-BC0024L ECL1J-B24-EC0024L ECW0D-B16-BE0024L ECW0J-B24-BC0006L ECW0J-B24-CC0006L
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