

Features

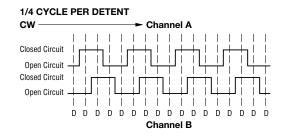
- Incremental encoder / quadrature output
- Exceptionally long operating life
- High operating temperature capabilities up to 125°C
- Sturdy construction
- Bushing mount

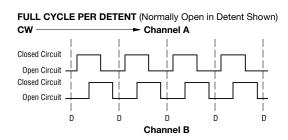
 Available with PC board mounting bracket (optional)

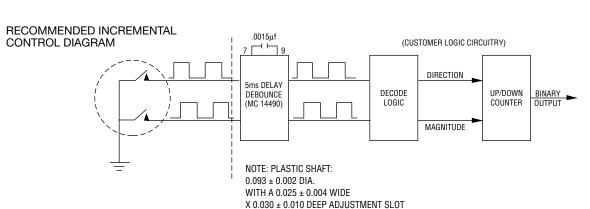
ECW - Digital Contacting Encoder

Electrical Characteristics	
Closed Circuit Resistance	2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW)5 ohms maximum00K ohms minimum
Environmental Characteristics	
Operating Temperature Range	-40°C to +140°C -+1°C to +125°C
Mechanical Characteristics	
Weight	Continuous Approximately 0.75 oz. 0.75 to 2.25 oz-in. 7 in-lbs. maximum 10 lbs. minimum
QUADRATURE OUTPUT TABLE This table is intended to show available output	ite as currently defined

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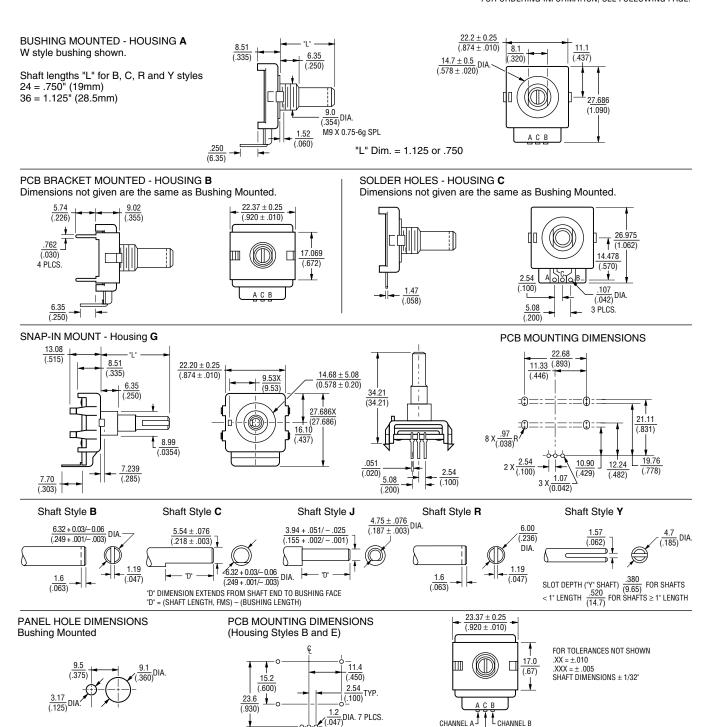
DIGITAL CONTACTING

The Digital Contacting Encoder is commonly referred to by such names as Digital Panel Control, Bit Switch, Gray Switch and Digital Switch. All such names are synonymous with a device whose output is a digital gray code signal, rather than a conventional potentiometric voltage ratio output.

The advantage of the Digital Contacting Encoder is that it permits the direct entry of digitized analog data into a digital circuit without A/D conversion. The two (2) channel gray coded signal of this incremental encoder allows the user's decoder circuit to sense analog direction of rotation, as well as up-down counter capabilities . . . all without the time and cost required for A/D conversion. This approach can reduce memory overhead, wiring and wiring interconnects, and can provide greater MPU program speed.

ECW - Digital Contacting Encoder

FOR ORDERING INFORMATION, SEE FOLLOWING PAGE.



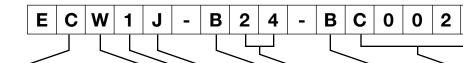
CHANNEL A

COMMON

L CHANNEL B

ECW - Digital Contacting Encoder - How To Order

BOURNS



Code	Rotational Life		
С	200,000 Revolutions		

PART NUMBERING SYSTEM

BUSHING CONFIGURATION				
Code	Description			
W	9mm x 1/4" Length. Threaded M9x0.75			
L	9mm x 3/8" Length. Threaded M9x0.75			
	(Use B shaft only.)			
Т	9mm 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		
2	Normally Closed		

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 (6mm 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	0	9		
E0012	0	12		
E0024	0	24		
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	E	F	G*
Terminal Cover	X	X			Х		Х
Terminals	Х	Х			Х		Х
Solder Holes			Х	Х		Х	
PCB Bracket		X		Х	Х	Х	
Hardware Included	Х		Х		Х	Х	
Snap-In Mount							Х

^{*}Bushing code T only.

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