

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

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

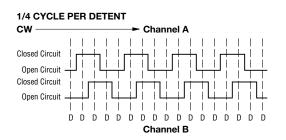
 Available with PC board mounting bracket (optional)

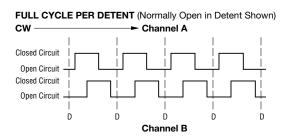
ECW - Digital Contacting Encoder

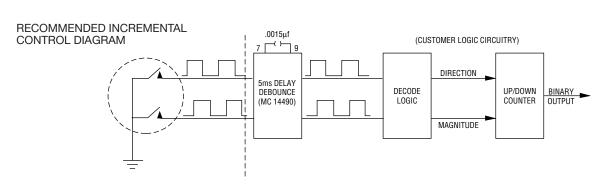
Electrical Characteristics	
Output	-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW)
Environmental Characteristics	
Operating Temperature Range Humidity Vibration Contact Bounce. Shock Contact Bounce.	-40°C to +140°C
Mechanical Characteristics	
Weight Torque (Detented) Mounting Torque	Continuous
*Applies to EC Option.	

QUADRATURE OUTPUT TABLE

This table is intended to show available outputs as currently defined.







DIGITAL CONTACTING

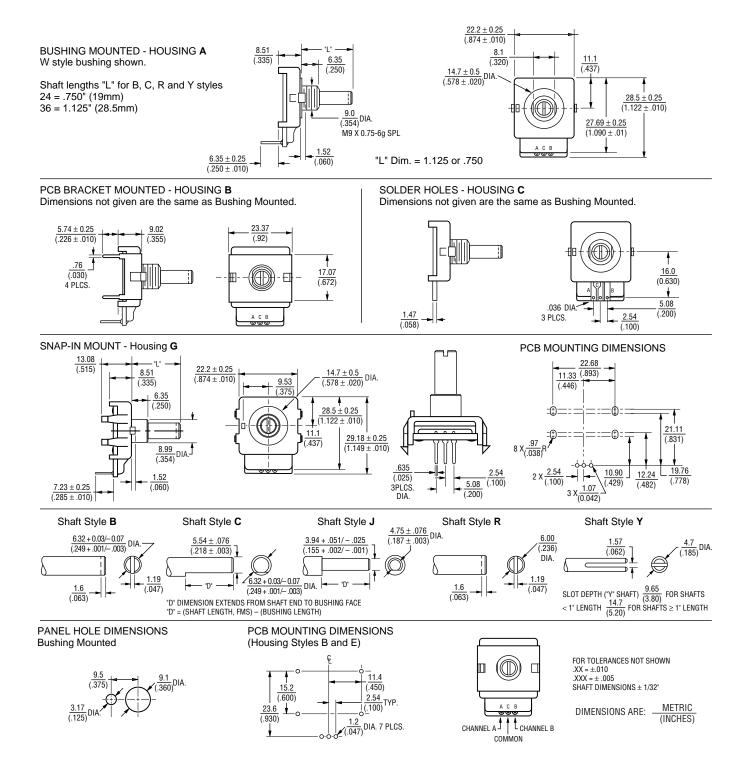
The Digital Contacting Encoder is commonly referred to by such names as Digital Panel Control, Bit Switch, Gray Switch and Digital Switch. All such names are synonymous with a device whose output is a digital gray code signal, rather than a conventional potentiometric voltage ratio output.

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

BOURNS

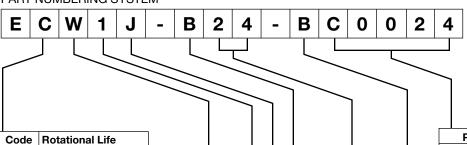


ECW - Digital Contacting Encoder - How To Order

BOURNS



200,000 Revolutions



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.			

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

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

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

^{*}Bushing code T only.

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

SHAFT	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.
The part number shown is a commonly used model, typically available from stock.

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		