

#### **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

Output	
Closed Circuit Resistance	
Open Circuit Resistance	
Contact Rating	
Insulation Resistance (500 VDC)	
Dielectric Withstanding Voltage (MIL-STD-202	Method 301)
Sea Level	
Electrical Travel	Continuous
Contact Bounce (15 RPM)	
RPM (Operating)	
Phase Tolerance (CH A to CH B)	
Environmental Characteristics	
Operating Temperature Range	40 °C to +85 °C (-40 °F to 185 °F)
Storage Temperature Range	
Humidity	MIL-STD-202, Method 103B, Condition B
Vibration	
Contact Bounce	
Shock	
Contact Bounce	
Rotational Life	
IP Rating	IP 40
Mechanical Characteristics	
Mechanical Angle	Continuous
Running Torque (Detented)	
Undetented Torque	
Mounting Torque	
Shaft Side Load (Static)	
Weight	Approximately 21 gms. (0.75 oz.)
Terminals	PC pin or solder lug
Soldering Condition	
Manual Soldering	
	370 °C (700 °F) max. for 3 seconds
Wave Soldering	
	260 °C (500 °F) max. for 5 seconds
Wash processes	
Marking	
HardwareOne lo	ockwasher 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



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## **ECW - Digital Contacting Encoder**

#### BOURNS



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

How to Order



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.

#### REV. 04/15/20

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19

22

24

19 mm Length

22 mm Length

24 mm Length

R

R

R

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