

## Features

- Low profile incremental encoder
- High-class rotational feel
- Haptic detent feedback

**Product Dimensions** 

(.157)

4 PLCS

t

 $11.5 \pm 0.3$ 

(.453 ± .012)

11

(.452) (.118) 4 PLCS

2(.079)

<u>6</u> (.236)

 $\frac{23.6 \pm 0.1}{(.929 \pm .004)}$ 

나라난

(.669)

(.354)

(க

вU cl

(.039)

RoHS compliant\*

# PER23 - 23 mm Low Profile Incremental Ring Encoder

(.118)

(.343)

(.118)

(.276)

 $\frac{3.5}{(.138)}$ 

μ<u>(.157</u>)

-0.8 (.031) 3 PLCS.

(.098)

(.079)

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4

### Additional Information

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PRODUCT	TECHNICAL LIBRARY	<b>INVENTORY</b>	<u>SAMPLES</u>	<u>CONTACT</u>

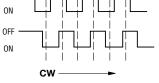
#### **Electrical Characteristics**

Output2-bit quadrature code				
Contact Rating 10 mA @ 5 V DC				
Insulation Resistance				
100 megohms @ 100 V DC				
Dielectric Withstanding Voltage				
Sea Level100 V AC				
Electrical TravelContinuous				
Contact Bounce (15 RPM) 3 ms max.**				
Environmental Characteristics				
Operating Temperature10 °C to +60 °C				
Storage Temperature40 °C to +85 °C				
Mechanical Characteristics				
Mechanical Characteristics				

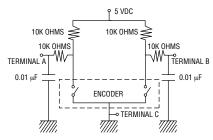
nrivi (Operatiriy)	00 max.
Mechanical Angle	360 ° continuous
Detent Torque	40 to 100 gf-cm
Rotational Life	50,000 cycles
Soldering Condition	
Wave Soldering	260 °C for 3 seconds
Manual Soldering	300 °C for 3 seconds

Quadrature Output Table





### Suggested Filter Circuit

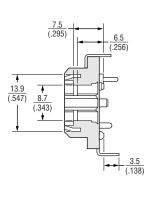


**CAUTION** Do not store product in high temperature and humidity, direct sunlight and/or places where corrosive gases may be generated. Please use product within 6 months from the date of delivery and promptly after unpacking.



 $\begin{array}{c} 4.6 \\ \hline (.181) \\ 2.1 \\ \hline (.083) \\ \hline (.083) \\ \hline (.138) \\ \hline (.118) \\ 2 \\ \hline (.079) \\ \hline (.512) \hline \hline (.512) \\ \hline (.512) \hline \hline (.512) \\ \hline (.512) \hline \hline (.512) \hline$ 

(.197)

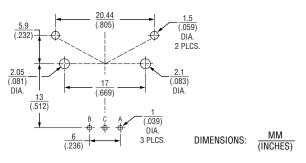


DIMENSIONS: <u>MM</u> (INCHES)

#### **Recommended PCB Layout**

R: <u>11.5</u> (.453) MAX.

C:  $\frac{0.5}{(.020)}$ 



\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\* Devices are tested using standard noise reduction filters. For optimum performance, designers should use noise reduction filters in their circuits. Specifications are subject to change without notice. Users should verify

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# PER23 - 23 mm Low Profile Incremental Ring Encoder

BOURNS

### How To Order

	PER23 1 - P1 9 - N 0010
Model	
Orientation P = PC Pins Down Facing	
Detent Option	
Ring Height 9 = 9.6 mm	
Switch Configuration N = No Switch	
Resolution	

0010 = 10 Pulses per 360 ° Rotation

# BOURNS®

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