

Features

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

Product Dimensions

<u>10.8</u> (.425)

DIA

_

∳ 3.05

(.120)

45 °

- X

120 ° 3 PLCS.

2.6

(.102) 2 PLCS.

(.039)

0.9 (035) 2.05 (.081) (.850)

DIMENSIONS:

10.4

(.409

Α В

8 (.315)

(.197)

22.9

RoHS compliant*

PER21 - 21 mm Low Profile Incremental Ring Encoder

8 (.315) 3 PLCS.

15.4

(.606) DIA.

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2.05 (.081)

3 PLCS.

MM

(INCHES)

(.591)

6

(.118)

(.157)

1.5 (.059) 2 PLCS.

2.5 (.098) 2 PLCS.

*

MOUNTING SURFACE

12.2 (.480) DIA.

1.45 (057 DIA. 2 PLCS.

(.079) ŧ

3.5

14.5 (.571)

<u>15</u> (.591)

П Т $\frac{16}{(.630)}$

 $\frac{0.3}{(.012)}$ C

Additional Information

Click these links for more information:



Electrical Characteristics

Output	2-bit quadrature code		
Contact Rating.	10 mA @ 5 V DC		
Insulation Resistance			
	100 megohms @ 250 V DC		
Dielectric Withstanding Voltage			
Sea Level			
EI 1 1 I T	• • •		

Electrical TravelContinuous Contact Bounce (15 RPM)...... 3 ms max.**

Environmental Characteristics

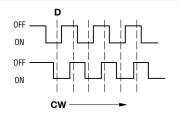
Operating Temperature	-10	°C	to	+60	°C
Storage Temperature	-40	°C	to	+85	°C

Mechanical Characteristics

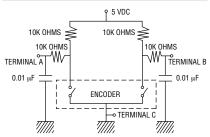
RPM (Operating)	
Detent Torque	70 to 170 gf-cm
Rotational Life	
Soldering Condition	
Wave Soldering	260 °C for 3 seconds

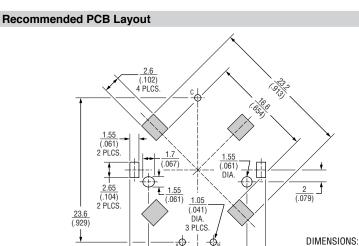
Vave Soldering...... 260 °C for 3 seconds Manual Soldering ... 300 °C for 3 seconds

Quadrature Output Table



Suggested Filter Circuit





MM (INCHES)

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.

WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

 $\frac{16}{(.630)}$

22.3 (.878)

197)



PER21 - 21 mm Low Profile Incremental Ring Encoder

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How To Order

07/21

0009 = 9 Pulses per 360 ° Rotation

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com www.bourns.com

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