

Features

- Push switch option
- Compact, rugged design
- High reliability
- Metal bushing/shaft
- RoHS compliant*



PEC11R Series - 12 mm Incremental Encoder

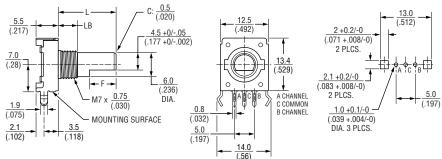
Additional Information

Click these links for more information:

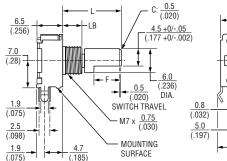


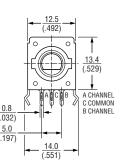
Product Dimensions

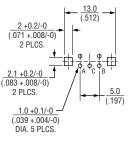
PEC11R-1xxxF-Nxxxx



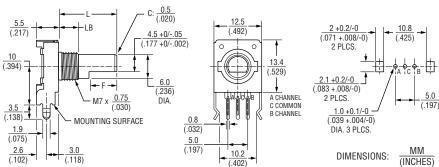
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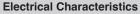


PEC11R-2xxxF-Nxxxx



CAUTION Do not store product i may be generated. Ple

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.



Output......2-bit quadrature code Contact Rating.......10 mA @ 5 VDC Insulation Resistance

Sea Level	300 VAC min.
Electrical Travel	Continuous
Contact Bounce (15 RPM)	2.0 ms max.**
RPM (Operating)	60 max.**

Environmental Characteristics

Operating Temperature Range

....MIL-STD-202, Method 103B, Condition B Vibration

10~55~10 Hz / 1 min. / Amplitude 1.	5 mm
Shock	100 G
IP Rating	IP 40

Mechanical Characteristics

Detent.. 30 to 90 gf-cm (0.41 to 1.25 oz.-in.) Running ... 10-70 gf-cm (0.14 to 0.97 oz.-in.) Mounting 10.2 kgf-cm (8.83 lb.-in.) max. Shaft Side Load (Static)

Hand Soldering.....Not recommended Hardware.. One flat washer and one mounting nut supplied with each encoder

Rotational Life	30,000 c	ycles min.
Switch Life	20,000 c	ycles min.

Switch Characteristics

Switch Type

1(0 mA at 5 VDC
Switch Travel	. 0.5 ± 0.3 mm
Switch Actuation Force	

..... 610 \pm 306 gf (8.47 \pm 4.24 oz.in.) Contact Resistance ... 100 milliohms @ 5 VDC

WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

*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.

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Applications

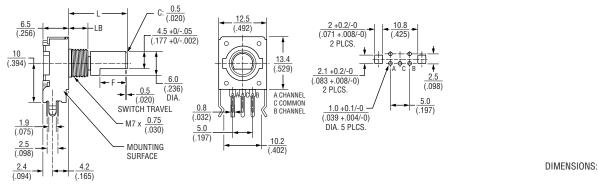
Level control, tuning and timer settings in:

- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

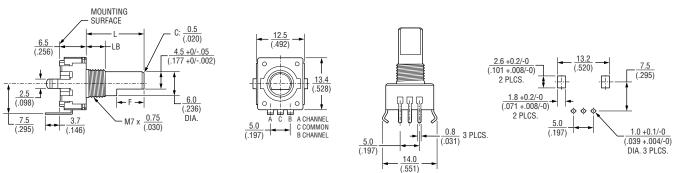
PEC11R Series - 12 mm Incremental Encoder

Product Dimensions (continued)

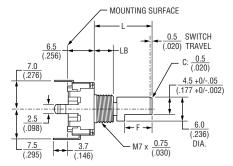
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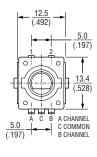


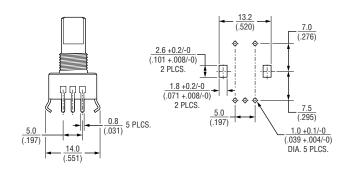
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MM

(INCHES)

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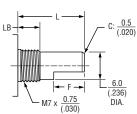
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PEC11R Series - 12 mm Incremental Encoder

Knurled Shaft

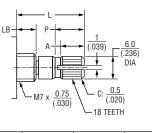
Shaft Dimensions

Flatted Shaft



L	LB	F
<u>15</u>	<u>5</u>	7
(.591)	(.197)	(.276)
<u>20</u>	7	<u>10</u>
(.787)	(.276)	(.394)
<u>25</u>	7	<u>12</u>
(.984)	(.276)	(.472)
<u>30</u>	7	<u>12</u>
(1.181)	(.276)	(.472)

DIMENSIONS: $\frac{MM}{(INCHES)}$



L	LB	Р	Α
<u>15</u>	<u>5</u>	7	<u>6</u>
(.591)	(.197)	(.276)	(.236)
<u>20</u>	7	7	<u>6</u>
(.787)	(.276)	(.276)	(.236)
<u>25</u>	7	<u>12</u>	<u>10</u>
(.984)	(.276)	(.472)	(.394)
<u>30</u>	7	<u>16</u>	<u>12</u>
(1.181)	(.276)	(.630)	(.472)

DIMENSIONS: MM (INCHES)

How To Order

	PEC11R 4 0 20 F - S 001
Model	
Detent Option 0 = No Detents (12, 18, 24 pulses) 1 = 18 Detents (18 pulses) 2 = 24 Detents (12, 24 pulses) 3 = 12 Detents (12, 24 pulses)	
Standard Shaft Length	
Shaft Style F = Metal Flatted Shaft K = Metal Knurled Shaft ¹	
Switch Configuration S = Push Momentary Switch N = No Switch	
Resolution 0012 = 12 Pulses per 360 ° Rotation 0018 = 18 Pulses per 360 ° Rotation 0024 = 24 Pulses per 360 ° Rotation	
Metal knurled shaft without switch is available in 15, 20 and 30 mm shaft ler Metal knurled shaft with push momentary switch is available in 15 and 20 m	

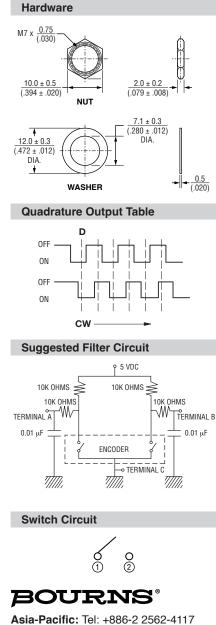
REV. 01/23

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