

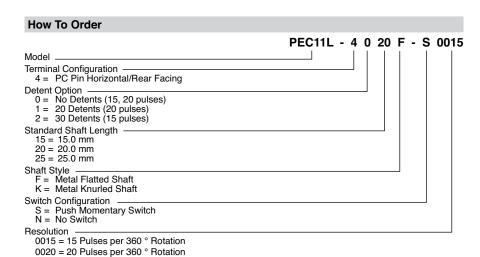
Features

- Push switch option
- Compact, low profile
- High rotational life and switch life
- Metal bushing/shaft
- RoHS compliant*



PEC11L Series - 11 mm Low Profile Encoder

Electrical Characteristics	
	2-bit quadrature code
	100 megohms @ 250 VDC
Dielectric Withstanding Voltage	
	300 VAC minimum
	10 ms maximum**
RPM (Operating)	60 maximum**
Environmental Characteristics	
Operating Temperature Range	25 °C to +80 °C (+13 °F to +176 °F)
Storage Temperature Range	40 °C to +85 °C (-40 °F to +185 °F)
Humidity	MIL-STD-202, Method 103B, Condition A
Vibration	
Shock	
Rotational Life	
IP Rating	IP 40
Mechanical Characteristics	
Mechanical Angle	
Torque	
	20-200 gf-cm (0.27 to 2.8 oz-in)
	70 N-cm (6.2 lb-in) maximum
	2.04 kgf (4.5 lbs) minimum
	5 gm (0.17 oz) maximum
	Printed circuit board terminals
Soldering Condition	
Wave Soldering	
Hand Soldering	Not recommended
Hardware	One flat washer and one mounting nut supplied with each encoder
Switch Characteristics	
Switch Type	
Power Rating (Resistive Load)	



^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

^{**}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.

Applications

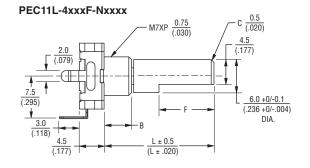
Level control, tuning and timer settings in:

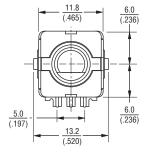
- Audio-visual equipment
- Consumer electric appliances
- **Environmental controls**
- Musical instrumentation
- Communications equipment

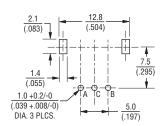
PEC11L Series - 11 mm Low Profile Encoder

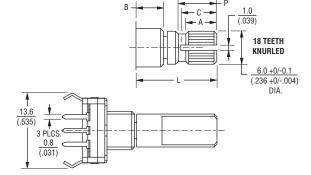
BOURNS®

Product Dimensions





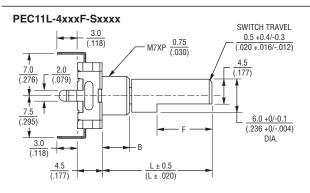


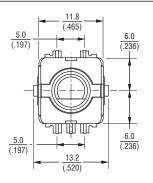


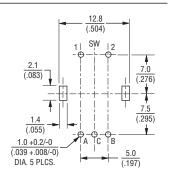
L	В	F	Р	Α	С
15 (.591)	<u>5.0</u> (.197)	7.0 (.276)	7.0 (.276)	6.0 (.236)	7.0 (.276)
20 (.787)	7.0 (.276)	10.0 (.394)	7.0 (.276)	6.0 (.236)	7.0 (.276)
25 (.984)	7.0 (.276)	12.0 (.472)	12.0 (.472)	10.0 (.394)	11.0 (.433)

Dim.	Tol.
<10.0	±0.3
(<.394)	(±.012)
10.0 ~ 100	±0.5
(.394 ~ 3.937)	(±.020)

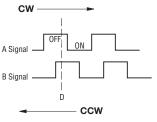
MM DIMENSIONS: (INCHES)







Quadrature Output Table

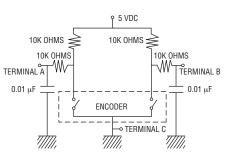


REV. 02/15

Switch Circuit



Suggested Filter Circuit



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Mouser Electronics

Authorized Distributor

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Bourns:

PEC11L-4125K-N0020 PEC11L-4220F-S0030 PEC11L-4220F-S0015 PEC11L-4120F-S0020 PEC11L-4120K-N0020 PEC11L-4020F-S0015 PEC11L-4020F-S0020 PEC11L-4015F-S0020 PEC11L-4120F-N0020 PEC11L-4225F-N0015 PEC11L-4225F-S0015 PEC11L-4220K-S0015 PEC11L-4115F-S0020 PEC11L-4225K-N0015 PEC11L-4015F-S0015 PEC11L-4015F-N0015 PEC11L-4015F-N0015 PEC11L-4015F-N0015 PEC11L-4015F-N0015