

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	
Closed Circuit Resistance Contact Rating Insulation Resistance	2-bit quadrature code 100 milliohms maximum 10 mA @ 5 VDC 100 megohms @ 250 VDC
Contact Bounce (60 RPM)	
Environmental Characteristics	
Storage Temperature Range	
Mechanical Characteristics	
	360 ° continuous
Running	
Soldering Condition Wave Soldering Hand Soldering	Sn95.5/Ag2.8/Cu0.7 solder with no-clean flux: 260 °C ±5 °C max. for 3-5 seconds
Hardware	One flat washer and one mounting nut supplied with each encoder
Switch Characteristics	
Switch Life	Contact Push ON Momentary SPST 100,000 actuations minimum 10 mA at 5 V DC 0.5 ± 0.3 mm 610 ± 306 gf (8.47 ± 4.24 ozin.)

How To Order PEC11L - 4 0 20 F - S 0015 Model Terminal Configuration 4 = PC Pin Horizontal/Rear Facing Detent Option 0 = No Detents (15, 20 pulses) 1 = 20 Detents (20 pulses) 2 = 30 Detents (15 pulses) Standard Shaft Length 15 = 15.0 mm 20 = 20.0 mm 25 = 25.0 mm Shaft Style F = Metal Flatted Shaft K = Metal Knurled Shaft Switch Configuration S = Push Momentary Switch N = No Switch Resolution 0015 = 15 Pulses per 360 ° Rotation 0020 = 20 Pulses per 360 ° Rotation



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** 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 actual device performance in their specific applications.

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Applications

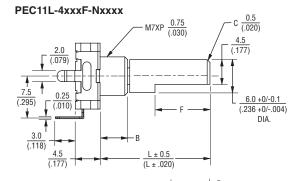
Level control, tuning and timer settings in:

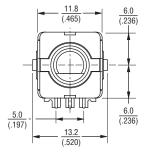
- Audio-visual equipment
- Consumer electric appliances
- Environmental controls
- Musical instrumentation
- Communications equipment

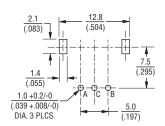
PEC11L Series - 11 mm Low Profile Encoder

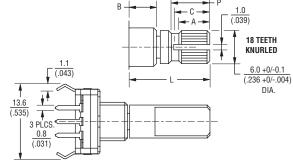
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Product Dimensions





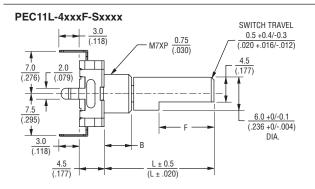


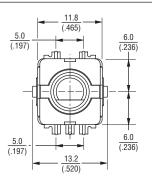


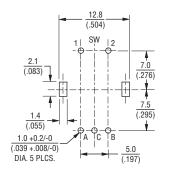
L	В	F	P	Α	С
15	<u>5.0</u>	7.0	7.0	6.0	7.0
(.591)	(.197)	(.276)	(.276)	(.236)	(.276)
20	7.0	10.0	7.0 (.276)	6.0	7.0
(.787)	(.276)	(.394)		(.236)	(.276)
25	7.0	12.0	12.0	10.0	11.0
(.984)	(.276)	(.472)	(.472)	(.394)	(.433)

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

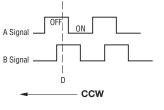
MM DIMENSIONS: (INCHES)







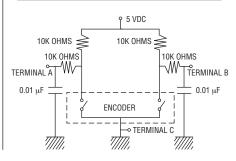
Quadrature Output Table cw ON



Switch Circuit



Suggested Filter Circuit



REV. 01/20

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PEC11L-4125K-N0020 PEC11L-4220F-S0030 PEC11L-4220F-S0015 PEC11L-4120F-S0020 PEC11L-4220F-S0015 PEC11L-4020K-S0020 PEC11L-4120K-N0020 PEC11L-4125F-S0020 PEC11L-4115K-S0020 PEC11L-4020F-S0015 PEC11L-4020F-S0020 PEC11L-4015F-S0020 PEC11L-4120F-N0020 PEC11L-4125F-N0020 PEC11L-4225F-N0015 PEC11L-4225F-S0015 PEC11L-4020F-N0020 PEC11L-4220K-S0015 PEC11L-4220F-S0012 PEC11L-4120K-S0020 PEC11L-4115F-S0020 PEC11L-4225K-N0015 PEC11L-4015F-S0015 PEC11L-4015K-S0015 PEC11L-4015K-