

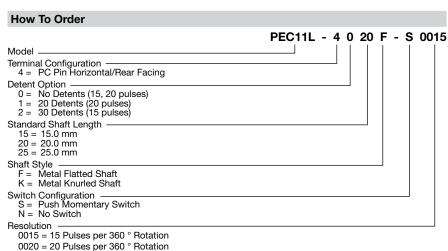
### **Features**

- Push switch option
- Compact, low profile
- High reliability
- Metal bushing/shaft
- RoHS compliant\*



# PEC11L Series - 11 mm Low Profile Encoder

<b>Electrical Characteristics</b>	
	2-bit quadrature code
	100 megohms @ 250 VDC
Dielectric Withstanding Voltage	
	300 VAC minimum
	Continuous
	10 ms maximum**
RPM (Operating)	
<b>Environmental Characteristics</b>	
Operating Temperature Range	10 °C to +70 °C (+14 °F to +158 °F)
Storage Temperature Range	-40 °C to +85 °C (-40 °F to +185 °F)
Humidity	MIL-STD-202, Method 103B, Condition Á
Vibration	30 G
	100 G
	100,000 cycles minimum
IP Rating	IP 40
Mechanical Characteristics	
Mechanical Angle	
Torque	
Detent	
Mounting	
Shaft Side Load (Static)	
Weight	
Terminals	Printed circuit board terminals
Soldering Condition	
	Sn95.5/Ag2.8/Cu0.7 solder with no-clean flux: 260 °C ±5 °C max. for 3-5 seconds
Hand Soldering	Not recommended
Hardware	One flat washer and one mounting nut supplied with each encoder
Switch Characteristics	
Switch Type	
Power Rating (Resistive Load)	10 mA at 5 V DC
Switch Actuation Force	



<sup>\*</sup>RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

<sup>\*\*</sup>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**

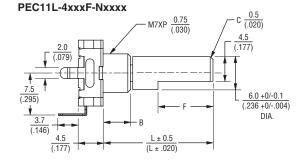
Level control, tuning and timer settings in:

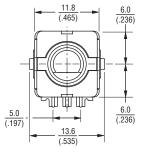
- Audio-visual equipment
- Consumer electric appliances
- Environmental controls
- Musical instrumentation
- Communications equipment

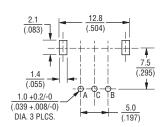
# PEC11L Series - 11 mm Low Profile Encoder

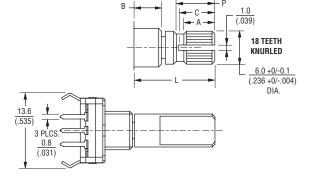
## **BOURNS**®

#### **Product Dimensions**



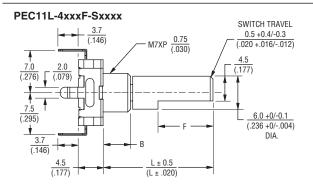


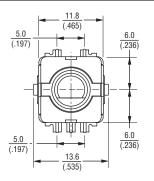


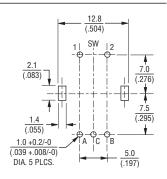


L	В	F	Р	Α	С
15	<u>5.0</u>	7.0	7.0	<u>6.0</u>	7.0
(.591)	(.197)	(.276)	(.276)	(.236)	(.276)
20	7.0	10.0	7.0	6.0	7.0
(.787)	(.276)	(.394)	(.276)	(.236)	(.276)
25	7.0	12.0	12.0	10.0	11.0
(.984)	(.276)	(.472)	(.472)	(.394)	(.433)

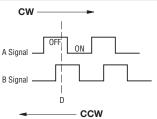
Dim.	Tol.	
<10.0	±0.3	
(<.394)	(±.012)	
10.0 ~ 100	±0.5	
(.394 ~ 3.937)	(±.020)	







### **Quadrature Output Table**

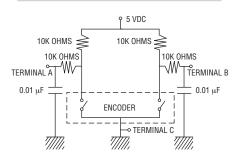


REV. 05/11

### **Switch Circuit**



### Suggested Filter Circuit



Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.