

Features

- Push switch option
- High detent torque
- High rotational life and switch life
- Metal bushing/shaft
- RoHS compliant*



PEC11H Series - 11 mm Encoder w/High Detent Force

Electrical Characteristics	
Output	2-bit quadrature code
4	100 milliohms maximum
	10 mA @ 5 VDC
ŭ .	100 megohms @ 250 VDC
Dielectric Withstanding Voltage - Sea Level	300 VAC minimum
Electrical Travel	
Contact Bounce (60 RPM)	3.0 ms maximum**
RPM (Operating)	60 maximum**
Environmental Characteristics	
Operating Temperature Range	20 °C to +70 °C (-4 °F to +158 °F)
	35 °C to +85 °C (-31 °F to +185 °F)
Humidity	MIL-STD-202, Method 103B, Condition A
Vibration	10~55~10 Hz / 1 min. / Amplitude 1.5 mm
	100 G
	100,000 cycles minimum
3	IP 40
Moisture Sensitivity Level	1
Mechanical Characteristics	
Mechanical Angle Torque	360 ° continuous
•	
Shaft Strength (Push-Pull)	50 N (11.2 lbs)
	5 gm (0.17 oz) maximum
	Printed circuit board terminals
Soldering Condition	
Wave Soldering	Sn95.5/Ag2.8/Cu0.7 solder with no-clean flux:
	260 °C \pm 5 °C max. for 3 \pm 1 seconds
	Not recommended
HardwareOne flat washer a	nd one mounting nut supplied with each encoder
Switch Characteristics	

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Additional Information

Click these links for more information:







TECHNICAL INVENTORY SAMPLES





CONTACT



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.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.



CAUTION

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.

Applications

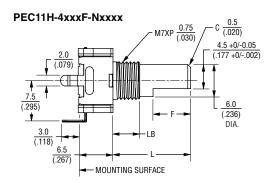
Level control, tuning and timer settings in:

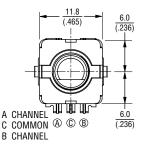
- Audio-visual equipment
- Consumer electric appliances
- Environmental controls
- Musical instrumentation
- Communications equipment

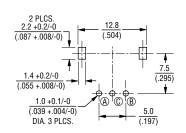
PEC11H Series - 11 mm Encoder w/High Detent Force

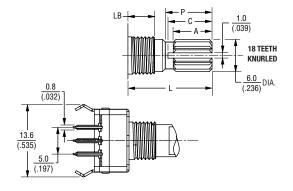
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Product Dimensions







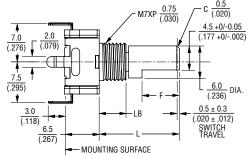


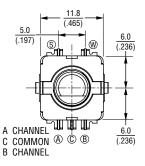
L	LB	F	Р	Α	С
15	<u>5.0</u>	<u>5.0</u>	7.0	6.0	6.0
(.591)	(.197)	(.197)	(.276)	(.236)	(.236)
20	7.0	10.0	7.0	6.0	7.0
(.787)	(.276)	(.394)	(.276)	(.236)	(.276)
25	7.0	12.0	12.0	10.0	11.0
(.984)	(.276)	(.472)	(.472)	(.394)	(.433)

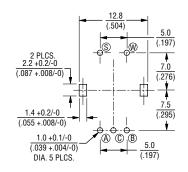
Dim.	Tol.
<10.0	±0.3
(<.394)	(±.012)
10.0 ~ 100	±0.5
(.394 ~ 3.937)	(±.020)

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

PEC11H-4xxxF-Sxxxx







13.6 (.535)	
(.197)	

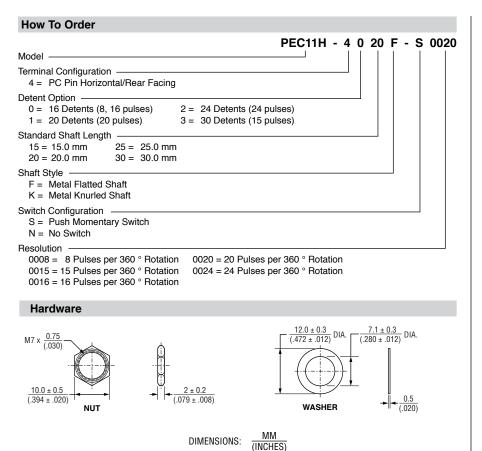
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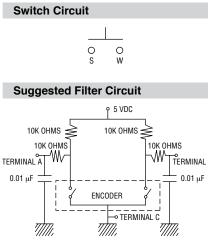
Dim.	Tol.
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(<.394)	(±.012)
10.0 ~ 100	±0.5
(.394 ~ 3.937)	(±.020)

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

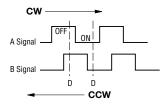
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Quadrature Output Table



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