

#### **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
Contact Rating	10 mA @ 5 VDC
	100 megohms @ 250 VDC
Dielectric Withstanding Voltage - Sea Level	300 VAC minimum
RPM (Operating)	
Environmental Characteristics	
	-20 °C to +70 °C (-4 °F to +158 °F)
	35 °C to +85 °C (-31 °F to +185 °F)
	MIL-STD-202, Method 103B, Condition A
	100 G
IP Rating	IP 40
Moisture Sensitivity Level	1
Mechanical Characteristics	
Mechanical Angle	
Torque	
	5 gm (0.17 oz) maximum
	Printed circuit board terminals
Soldering Condition	OF F/AcO 9/Cup 7 colder with no close flux; 960 °C . F °C may for 9 . 1 cocondo
	195.5/Ag2.8/Cu0.7 solder with no-clean flux: 260 °C ±5 °C max. for 3 ± 1 seconds
	One flat washer and one mounting nut supplied with each encoder
	One hat washer and one mounting hat supplied with each encoder
Switch Characteristics	
	10 mA at 5 V DC
	0.5 ± 0.3 mm
Switch Actuation Force	610 $\pm$ 306 gf (8.47 $\pm$ 4.24 ozin.)

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WARNING Cancer and Reproductive Harm -  $\underline{www.P65Warnings.ca.gov}$ 

Users should verify actual device performance in their specific applications.

<sup>\*</sup>RoHS Directive 2015/863, Mar 31, 2015 and 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**

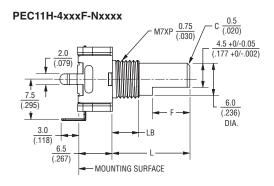
Level control, tuning and timer settings in:

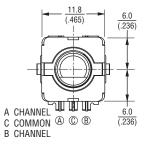
- Audio-visual equipment
- Consumer electric appliances
- Environmental controls
- Musical instrumentation
- Communications equipment

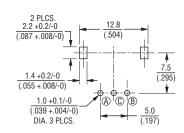
## PEC11H Series - 11 mm Encoder w/High Detent Force

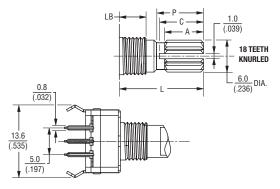
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#### **Product Dimensions**





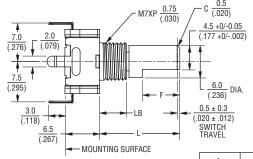


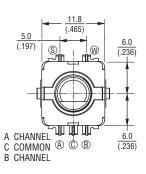


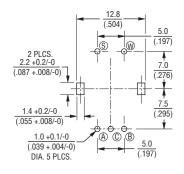
L	LB	F	Р	Α	С
15	<u>5.0</u>	<u>5.0</u>	7.0	6.0	6.0
(.591)	(.197)	(.197)	(.276)	(.236)	(.236)
20	7.0	10.0	7.0	6.0	7.0
(.787)	(.276)	(.394)	(.276)	(.236)	(.276)
25	7.0	12.0	12.0	10.0 (.394)	11.0
(.984)	(.276)	(.472)	(.472)		(.433)

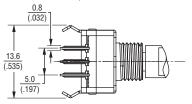
Dim.	Tol.
<10.0	±0.3
(<.394)	(±.012)
10.0 ~ 100	±0.5
(.394 ~ 3.937)	(±.020)

#### PEC11H-4xxxF-Sxxxx







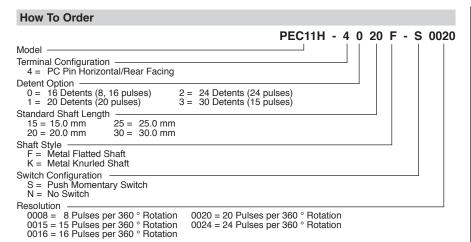


L	LB	F
15	<u>5.0</u>	5.0
(.591)	(.197)	(.197)
20 (.787)	7.0 (.276)	10.0 (.394)
25	7.0	12.0
(.984)	(.276)	(.472)

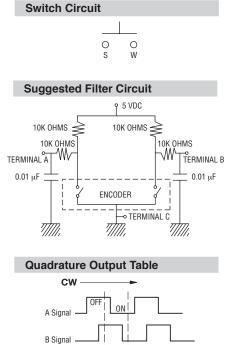
Dim.	Tol.
<10.0	±0.3
(<.394)	(±.012)
10.0 ~ 100	±0.5
(.394 ~ 3.937)	(±.020)

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