

Features

- Push switch option
- Compact, rugged design
- High reliability
- Metal bushing/shaft



PEC09 Series - 9 mm Incremental Encoder

Electrical Characteristics Dielectric Withstanding Voltage Sea Level..... RPM (Operating) _______60 maximum** **Environmental Characteristics** IP Rating.......IP 40 **Mechanical Characteristics** Torque Weight 5 gm (0.17 oz.) maximum Terminals Printed circuit board terminals Switch Characteristics Switch Life.... See How to Order **How To Order Quadrature Output Table** PEC09 - 2 0 20 F - S 0012 CW Model -Terminal Configuration — 2 = PC Pin Vertical/Side Exit Detent Option 0 = No Detents (12, 15 pulses) 1 = 12 Detents (12 pulses) 2 = 24 Detents (12 pulses) 3 = 30 Detents (15 pulses) Standard Shaft Length 15 = 15.0 mm 20 = 20.0 mm Suggested Filter Circuit 25 = 25.0 mmየ 5 VDC Shaft Style F = Metal Flatted Shaft K = Metal Knurled Shaft 10K OHMS ≥ 10K OHMS 10K OHMS Switch Configuration N = No Switch S = Push Momentary (0.5 mm stroke) T = Push Momentary (1.5 mm stroke) 0.01 uF 0012 = 12 Pulses per 360 ° Rotation **ENCODER** 0015 = 15 Pulses per 360 ° Rotation



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.

CIRCUIT DIAGRAM

7////.

Switch Circuit

→ TERMINAL C

10K OHMS

→ Terminal B

0.01 uF

Applications

Level control, tuning and timer settings in:

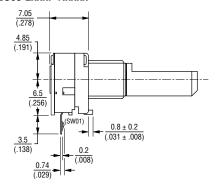
- Audio-visual equipment
- Consumer electric appliances
- Environmental controls
- Musical instrumentation
- Communications equipment

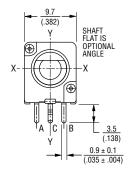
PEC09 Series - 9 mm Incremental Encoder

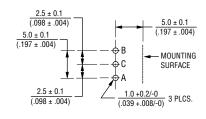
BOURNS®

Product Dimensions

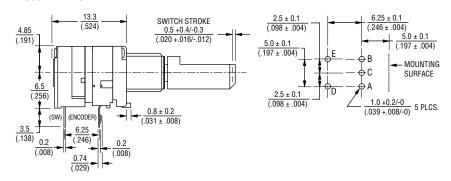
PEC09-2xxxF-Nxxxx



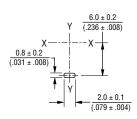




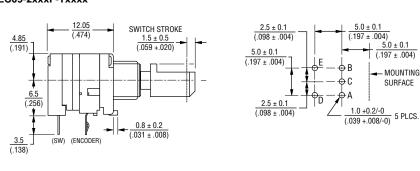
PEC09-2xxxF-Sxxxx



Locating Lug Detail



PEC09-2xxxF-Txxxx

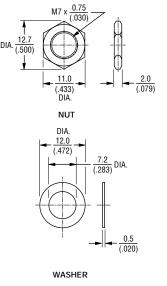


DIMENSIONS:

MM

(INCHES)

Hardware

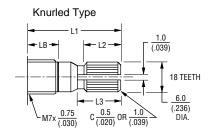


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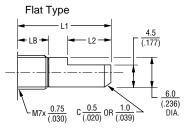
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Shaft Options

PEC09-2xxxx-Nxxxx

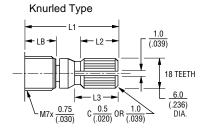


L1	LB	L2	L3
15	5.0	6.0	7.0
(.591)	(.197)	(.236)	(.276)
20	7.0	10.0	11.0
(.787)	(.276)	(.394)	(.433)
25	10.0	10.0	11.0
(.984)	(.394)	(.394)	$\overline{(.433)}$

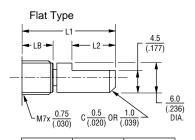


L1	LB	L2
15	5.0	7.0
(.591)	(.197)	(.276)
20	7.0	12.0
(.787)	(.276)	(.472)
25	10.0	12.0
(.984)	(.394)	(.472)

PEC09-2xxxx-Sxxxx (0.5 mm Switch Stroke)



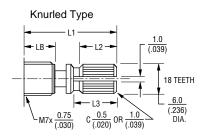
L1	LB	L2	L3
15	5.0	6.0	7.0
(.591)	(.197)	(.236)	(.276)
20	7.0	9.0	10.0
(.787)	(.276)	(.354)	(.394)
25	10.0	9.0	10.0
(.984)	(.394)	(.354)	(.394)



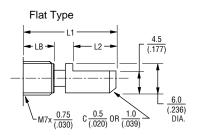
L1	LB	L2
15	5.0	7.0
(.591)	(.197)	(.276)
20	7.0	10.0
(.787)	(.276)	(.394)
25	10.0	10.0
(.984)	(.394)	(.394)

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

PEC09-2xxxx-Txxxx (1.5 mm Switch Stroke)



L1	LB	L2	L3
15	5.0	5.0	6.0
(.591)	(.197)	(.197)	(.236)
20	7.0	8.0	9.0
(.787)	(.276)	(.315)	(.354)
25	10.0	8.0	9.0
(.984)	(.394)	(.315)	(.354)



L1	LB	L2
15	5.0	7.0
(.591)	(.197)	(.276)
20	7.0	10.0
(.787)	(.276)	(.394)
25	10.0	10.0
(.984)	(.394)	(.394)

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