

Features

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



PEC11 Series - 12 mm Incremental Encoder

Electrical Characteristics2-bit quadrature code Dielectric Withstanding Voltage RPM (Operating) 60 maximum** **Environmental Characteristics** Operating Temperature Range -30 °C to +70 °C (-22 °F to +158 °F) Storage Temperature Range -40 °C to +85 °C (-40 °F to +185 °F) Humidity MIL-STD-202, Method 103B, Condition B **Mechanical Characteristics** Weight ______5 gm (0.17 oz.) maximumPrinted circuit board terminals Soldering Condition **Switch Characteristics** Switch Travel $..0.5 \pm 0.2 \text{ mm}$ Switch Actuation Force 610 ± 306 gf (8.47 ± 4.24 oz.-in.) **How To Order Quadrature Output Table** PEC11 - 4 0 20 F - S 0012 Model Detent Option -0 = No Detents (12, 18, 24 pulses) 1 = 18 Detents (18 pulses) 2 = 24 Detents (12, 24 pulses) B Signal 3 = 12 Detents (12 pulses) Standard Shaft Length 15 = 15.0 mm CCW 20 = 20.0 mm 25 = 25.0 mm 30 = 30.0 mm Shaft Style — F = Metal Flatted Shaft K = Metal Knurled Shaft¹ N = No Switch Resolution 0012 = 12 Pulses per 360 ° Rotation

*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

0018 = 18 Pulses per 360 ° Rotation 0024 = 24 Pulses per 360 ° Rotation

Customers should verify actual device performance in their specific applications.

¹ Metal knurled shaft with no switch is available in 15, 20 and 30 mm shaft lengths.

Metal knurled shaft with push momentary switch is available in 15 and 20 mm shaft lengths.

^{**}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:

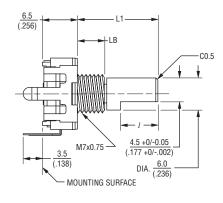
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

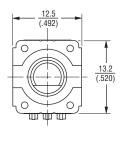
PEC11 Series - 12 mm Incremental Encoder

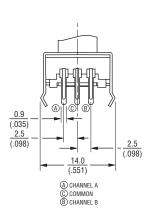
BOURNS®

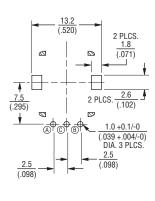
Product Dimensions

PEC11-4xxxF-Nxxxx

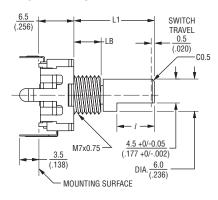


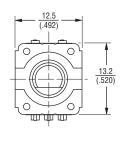


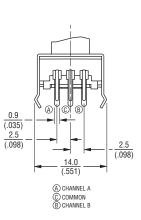


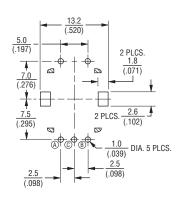


PEC11-4xxxF-Sxxxx





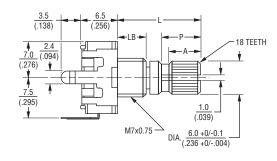


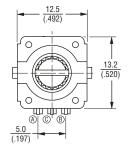


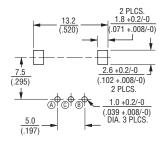
L1	LB	l
15	5.0	7.0
(.591)	(.197)	(.276)
20	7.0	10.0
(.787)	(.276)	(.394)
25	7.0	12.0
(.984)	(.276)	(.472)
30	7.0	12.0
(1.181)	(.276)	(.472)

Product Dimensions

PEC11-4xxxK-Nxxxx



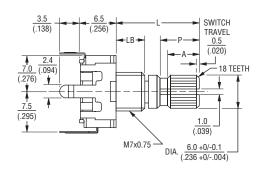


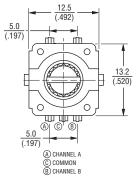


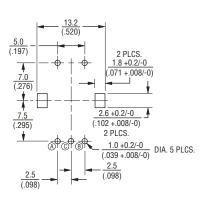
(A) CHANNEL A (C) COMMON (B) CHANNEL B

L	LB	Р	Α
<u>15</u> (.591)	<u>5.0</u> (.197)	7.0 (.276)	<u>6.0</u> (.236)
<u>20</u> (.787)	<u>7.0</u> (.276)	7.0 (.276)	<u>6.0</u> (.236)
30 (1.181)	<u>7.0</u> (.276)	<u>16.0</u> (.630)	<u>12.0</u> (.472)

PEC11-4xxxK-Sxxxx







L	LB	Р	Α
15	5.0	7.0 (.276)	6.0
(.591)	(.197)		(.236)
20	7.0	7.0	6.0
(.787)	(.276)	(.276)	(.236)