

Features

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



PEC11 Series - 12 mm Incremental Encoder

Electrical Characteristics	
Closed Circuit Resistance	.2-bit quadrature c
Electrical Travel	
Environmental Characteristics	
Storage Temperature Range	
Contact Bounce	10~55~10 Hz / 1 min. / Amplitude 1.5
Rotational Life	30,000 cycles minim 20,000 cycles minim IF
Mechanical Characteristics	
Running	
Soldering Condition Wave Soldering Hand Soldering Hardware	Sn95.5/Ag2.8/Cu0.7 solder with no-clean flux: 260 °C max. for 3-5 seco Not recommend One flat washer and one mounting nut supplied with each enco
Switch Characteristics	
Power Rating (Resistive Load)Switch Travel	
How To Order	Quadrature Output Table
	PEC11 - 4 0 20 F - S 0012
Model Terminal Configuration 4 = PC Pin Horizontal/Rear Facing Detent Option 0 = No Detents (12, 18, 24 pulses)	A Signal OFF ON
1 = 18 Detents (18 pulses) 2 = 24 Detents (12, 24 pulses) 3 = 12 Detents (12 pulses) Standard Shaft Length	B Signal
15 = 15.0 mm 20 = 20.0 mm 25 = 25.0 mm 30 = 30.0 mm	→ ccw
Shaft Style F = Metal Flatted Shaft K = Metal Knurled Shaft ¹ Suitch Configuration	
Switch Configuration S = Push Momentary Switch N = No Switch Resolution	

0024 = 24 Pulses per 360 ° Rotation

0018 = 18 Pulses per 360 ° Rotation

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.

Customers should verify actual device performance in their specific applications.

^{*}RoHS Directive 2002/95/EC Jan 27, 2003 including 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.

Applications

Level control, tuning and timer settings in:

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

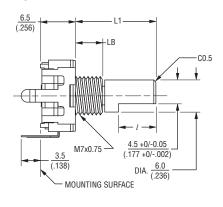


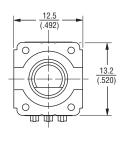
PEC11 Series - 12 mm Incremental Encoder

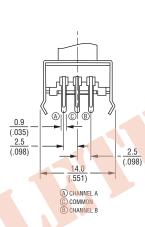
BOURNS

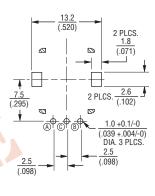
Product Dimensions

PEC11-4xxxF-Nxxxx

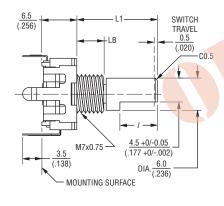


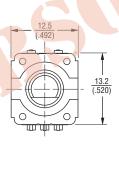


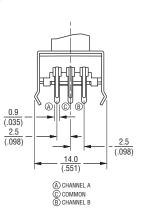


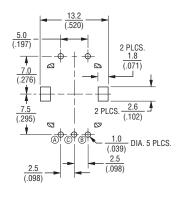


PEC11-4xxxF-Sxxxx









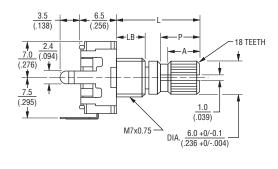
MM

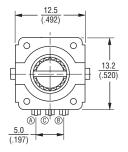
DIMENSIONS: (INCHES)

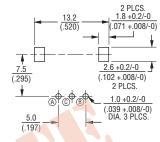
L1	LB	1
15	<u>5.0</u>	7.0
(.591)	(.197)	(.276)
<u>20</u>	7.0	10.0
(.787)	(.276)	(.394)
<u>25</u>	<u>7.0</u>	<u>12.0</u>
(.984)	(.276)	(.472)
30	<u>7.0</u>	12.0
(1.181)	(.276)	(.472)

Product Dimensions

PEC11-4xxxK-Nxxxx



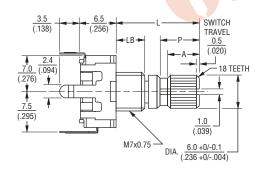


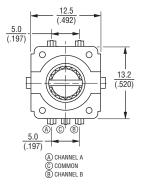


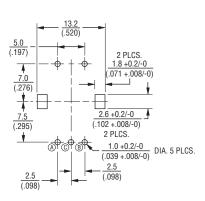
(a) CHANNEL A (c) COMMON (b) CHANNEL B

L	LB	Р	Α
15	5.0	7.0	6.0
(.591)	(.197)	(.276)	(.236)
20	7.0	7.0	_6.0_
(.787)	(.276)	(.276)	(.236)
30	7.0	_16.0_	_12.0_
(1.181)	(.276)	(.630)	(.472)

PEC11-4xxxK-Sxxxx







L	LB	P	Α
15	5.0	7.0 (.276)	6.0
(.591)	(.197)		(.236)
<u>20</u>	7.0	7.0	<u>6.0</u>
(.787)	(.276)	(.276)	(.236)