

### **Features**

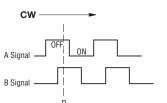
- Compact design, long life and high reliability
- Low cost compared to optical type encoders
- Available in a wide variety of configurations to meet many user requirements



# PEC12 - 12 mm Incremental Encoder

Electrical Characteristics	
	2-bit gray cod
	3 ohms maximur
	1 mA @ 5 VD
Dielectric Withstanding Voltage	
	50 VAC minimul
	5.0 ms. maximum 100 maximum
<b>Environmental Characteristics</b>	
Operating Temperature Range	-30 °C to +70 °C (-22 °F to +158 °I
	-40 °C to +85 °C (-40 °F to +185 °I
Humidity	MIL-STD-202, Method 103B, Condition
/ibration	30
	100
	30,000 cycles minimu
	20,000 cycles minimu
P Rating	IP 4
Mechanical Characteristics	
	360 ° continuou
	Printed circuit board termina
Soldering Condition	Fillited circuit board termina
Waye Soldering	
Hand Soldering	Not recommende
Switch Characteristics	
How To Order	Quadrature Output Table
	PEC12 - 4 0 20 F - S 0012

# How To Order PEC12 - 4 0 20 F - S 0013 Model Terminal Configuration 2 = PC Pin Vertical/Down Facing 4 = PC Horizontal/Rear Facing Detent Option 0 = No Detents 1 = 12 Detents (available with 12 pulses only) 2 = 24 Detents (available with 24 pulses only) Standard Shaft Length 17 = 17.5 mm 20 = 20.0 mm 25 = 25.0 mm 30 = 30.0 mm (available with switch option only) Shaft Style F = Insulated Flatted Shaft Switch Configuration S = Push Momentary Switch N = No Switch Resolution 0012 = 12 Pulses per 360 ° Rotation 0024 = 24 Pulses per 360 ° Rotation 0024 = 24 Pulses per 360 ° Rotation



### **Applications**

Level control, tuning and timer settings in:

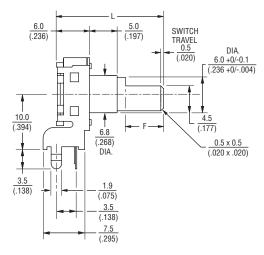
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

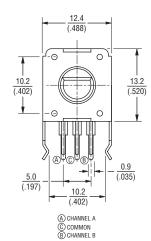
# PEC12 - 12 mm Incremental Encoder

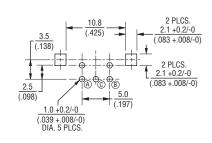
## **BOURNS**®

### **Product Dimensions**

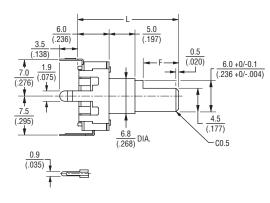
### PEC12-2xxxF-Sxxxx

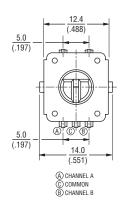


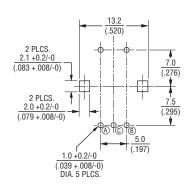




### PEC12-4xxxF-Sxxxx







L	17.5	<u>20.0</u>	25.0	30.0
	(.688)	(.787)	(.984)	(1.181)
F	<u>5.0</u>	7.0	12.0	12.0
	(.197)	(.276)	(.472)	(.472)

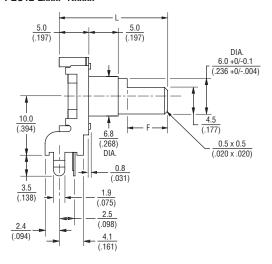
DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

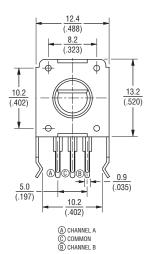
# PEC12 - 12 mm Incremental Encoder

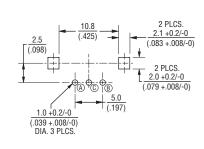
# **BOURNS**®

### **Product Dimensions**

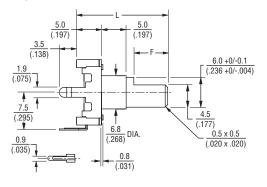
### PEC12-2xxxF-Nxxxx

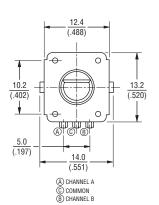


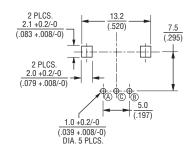




### PEC12-4xxxF-Nxxxx







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