

### **Features**

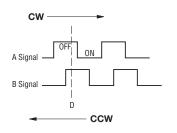
- Compact design, long life and high reliability
- Low cost compared to optical type encoders
- Available in a wide variety of configurations to meet many user requirements



## PEC12 - 12 mm Incremental Encoder

Electrical Characteristics	
Output	.2-bit quadrature code
Environmental Characteristics	
Storage Temperature Range Humidity Vibration Contact Bounce Shock Rotational Life Switch Life	-30 °C to +70 °C (-22 °F to +158 °F) -40 °C to +85 °C (-40 °F to +185 °F) -40 °C to +85 °C (-40 °F to +185 °F) -40 °C to +85 °C (-40 °F to +185 °F) -40 °C to +85 °C (-40 °F to +185 °F) -40 °C to +85 °C (-40 °F to +158 °F) -40 °C to +85 °C (-40 °F to +158 °F) -40 °C to +90 °C +10 °C
Mechanical Characteristics	
Running Torque Shaft Side Load (Static). Weight Terminals Terminals Soldering Condition Wave Soldering. Hand Soldering.	
Switch Characteristics	
Power Rating (Resistive Load)	Contact Push ON Momentary SPST
How To Order	Quadrature Output Table

### PEC12 - 4 0 20 F - S 0012 Model Terminal Configuration 2 = Vertical Mount/Down Facing PC Pin 4 = Horizontal Mount/Rear Facing PC Pin 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 mmShaft 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



### **Applications**

Level control, tuning and timer settings in:

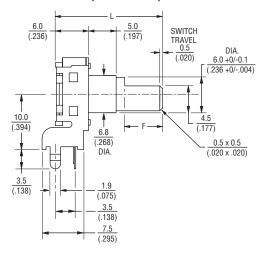
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

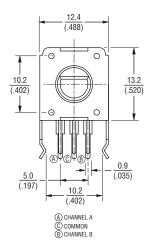
# PEC12 - 12 mm Incremental Encoder

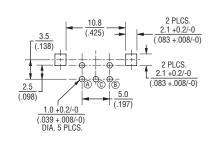
### **BOURNS**®

#### **Product Dimensions**

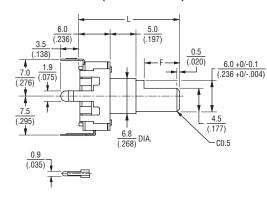
#### PEC12-2xxxF-Sxxxx (Vertical Mount)

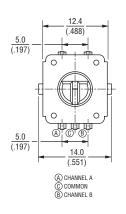


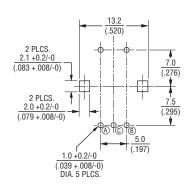




#### PEC12-4xxxF-Sxxxx (Horizontal Mount)







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)

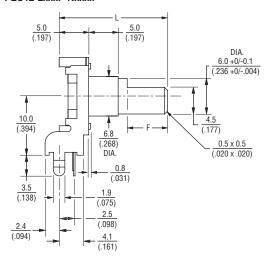
DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

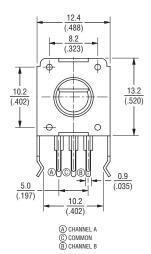
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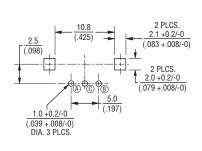
### BOURNS®

#### **Product Dimensions**

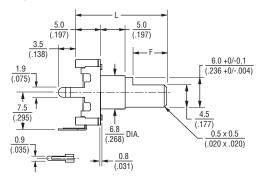
#### PEC12-2xxxF-Nxxxx

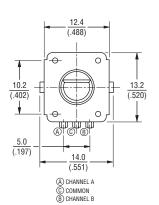


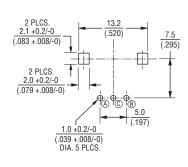




#### PEC12-4xxxF-Nxxxx







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