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JAMECO

ELECTRONICS

### www.Jameco.com + 1-800-831-4242

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Jameco Part Number 776386



F = Insulated Flatted Shaft

S = Push Momentary Switch

0012 = 12 Pulses per 360 ° Rotation 0024 = 24 Pulses per 360 ° Rotation

Switch Configuration -

Resolution

N = No Switch

#### **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

### **Applications**

Level control, tuning and timer settings in:

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

## PEC12 - 12 mm Incremental Encoder

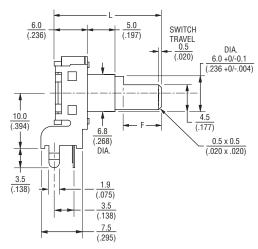
Electrical Characteristics	
Output	2-bit gray code
Closed Circuit Resistance	3 ohms maximum
Contact Rating	1 mA @ 5 VDC
Insulation Resistance	10 megohms @ 250 VDC
Dielectric Withstanding Voltage	
Sea Level	50 VAC minimum
Electrical Travel	Continuous
Contact Bounce (15 RPM)	
RPM (Operating)	100 maximum
Environmental Characteristics	
Operating Temperature Range	
Storage Temperature Range	
Humidity	MIL-STD-202, Method 103B, Condition E
Vibration	
Contact Bounce	
Shock	
Rotational Life	
Switch Life	
IP Rating	IP 40
Mechanical Characteristics	
Mechanical Angle	360 ° continuous
Running Torque	30.6 to 204 g-cm (0.42 to 2.83 ozin.
Shaft Side Load (Static)	2.04 kgf (4.5 lbs.) minimum
Weight	
Terminals	
Hardware	No hardware supplied
Switch Characteristics	
Switch Type	Contact Push ON Momentary SPST
Power Rating (Resistive Load)	10 mA at 5 V DC
Switch Travel	0.5 +0.4/-0.3 mm
Switch Actuation Force	360 +153/-102 gf (5 +2.1/-1.4 ozin.
How to Order	Oughesture Output Table
now to Order	Quadrature Output Table
PEC12 - 4 0 20 I	F - S 0012
Model —	
Terminal Configuration —	
2 = PC Pin Vertical/Down Facing	A Signal ON ON
	A Signal —
4 = PC Horizontal/Rear Facing	
Detent Option —	B Signal — L
0 = No Detents	
1 = 12 Detents (available with 12 pulses only)	D D
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 —	
E - Insulated Flatted Shaft	

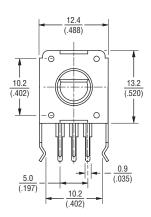
# PEC12 - 12 mm Incremental Encoder

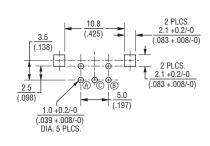
## **BOURNS**®

#### **Product Dimensions**

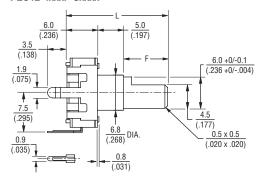
#### PEC12-2xxxF-Sxxxx

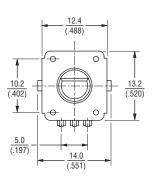


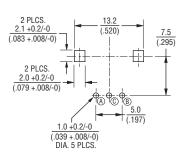




#### PEC12-4xxxF-Sxxxx







DIMENSIONS: MM (INCHES)

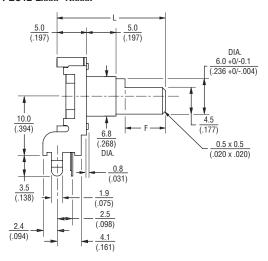
L	17.5	<u>20.0</u>	25.0	30.0
	(.688)	(.787)	(.984)	(1.181)
F	<u>5.0</u>	7.0	12.0	12.0
	(.197)	(.276)	(.472)	(.472)

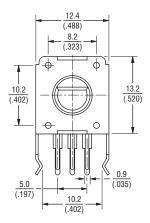
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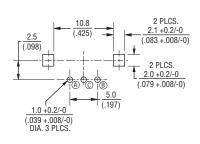
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#### **Product Dimensions**

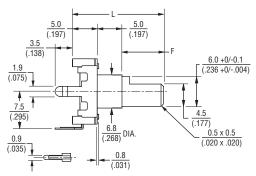
#### PEC12-2xxxF-Nxxxx

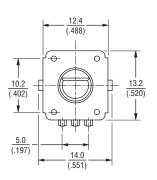


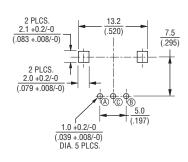




#### PEC12-4xxxF-Nxxxx







DIMENSIONS: MM (INCHES)

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