

### **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



# PEC16 - 16 mm Incremental Encoder

Electrical Characteristics	
Output	3 ohms maximum
Contact Rating	
Sea LevelElectrical Travel	Continuous
RPM (Operating)	
Environmental Characteristics	
Operating Temperature Range	40 °C to +85 °C (-40 °F to +185 °F) MIL-STD-202, Method 103B, Condition B 10~55~10 Hz / 1 min. / Amplitude 1.5 mm 100 G
Switch Life	
Mechanical Characteristics	
Mechanical Angle Torque	
Running	
Terminals	
Wave Soldering	Not recommended
HardwareOne fla	at washer and one mounting nut supplied with each encoder.
Switch Characteristics	
Switch Type	10 mA at 5 V DC
Switch Actuation Force	
How To Order	Quadrature Output Table
PEC16 - 4 0 20 F - 9	6 0012 cw ——➤
Model   Terminal Configuration	OFF
4 = PC Horizontal/Rear Facing  Detent Option —	A Signal ON ON
0 = No Detents 1 = 12 Detents 2 = 24 Detents	B Signal
Standard Shaft Length  15 = 15 mm  20 = 20.0 mm  25 = 25.0 mm <sup>1</sup>	ccw
30 = 30.0 mm <sup>1</sup> Shaft Style	Switch Circuit
F = Insulated Flatted Shaft  Switch Configuration  S = Push Momentary Switch N = No Switch	E
Resolution 0012 = 12 Pulses per 360 ° Rotation 0024 = 24 Pulses per 360 ° Rotation	

<sup>&</sup>lt;sup>1</sup> Not available with switch

<sup>\*</sup>RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

<sup>\*\*</sup>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:

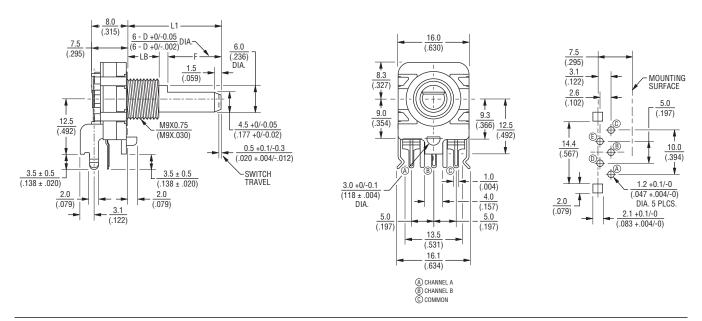
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

### PEC16 - 16 mm Incremental Encoder

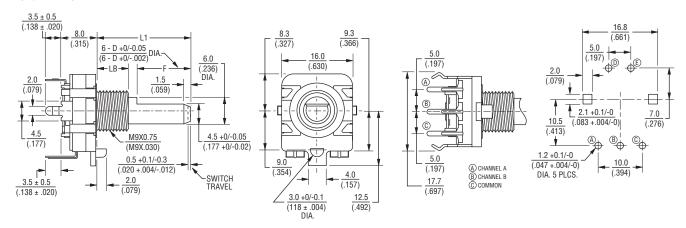
### **BOURNS**®

#### **Product Dimensions**

#### PEC16-2xxxF-Sxxxx



### PEC16-4xxxF-Sxxxx



L1	<u>15.0</u> (.591)	20.0 (.787)
LB	<u>5.0</u> (.197)	7.0 (.276)
F	7.0 (.276)	12.0 (.472)

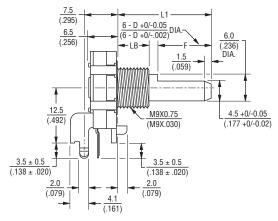
DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

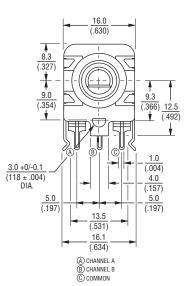
## PEC16 - 16 mm Incremental Encoder

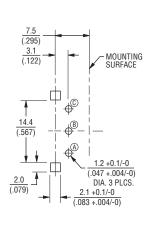
### **BOURNS**®

#### **Product Dimensions**

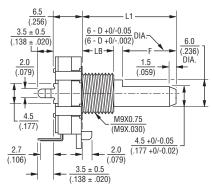
### PEC16-2xxxF-Nxxxx

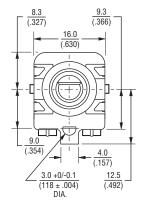


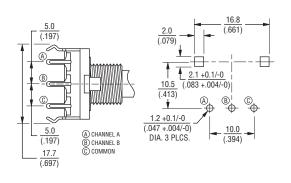




#### PEC16-4xxxF-Nxxxx

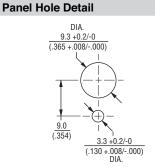






L1	15.0	20.0	25.0	30.0
	(.591)	(.787)	(.984)	(1.181)
LB	<u>5.0</u>	7.0	7.0	7.0
	(.197)	(.276)	(.276)	(.276)
F	7.0	12.0	12.0	12.0
	(.276)	(.472)	(.472)	(.472)

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



#### REV. 03/15

# **Mouser Electronics**

Authorized Distributor

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## Bourns:

PEC16-2215F-N002	4 PEC16-4220F-N0024	4 PEC16-4220F-S0024	PEC16-2015F-S0012	PEC16-2015F-S0024
PEC16-2020F-S0012	PEC16-2115F-N0012	PEC16-2120F-N0012	PEC16-2125F-N0012	PEC16-2215F-S0024
PEC16-2220F-N0024	PEC16-2220F-S0024	PEC16-2225F-N0024	PEC16-4020F-N0012	PEC16-4020F-N0024
PEC16-4020F-S0024	PEC16-4025F-N0024	PEC16-4115F-N0012	PEC16-4120F-N0012	PEC16-4125F-N0012
PEC16-4215F-N0024	PEC16-4215F-S0024	PEC16-4220F-S0012	PEC16-4220S-N0024	PEC16-4225F-N0024
PEC16-4230F-N0024	PEC16-42ABF-S0024	PEC16-2020F-S0024	PEC16-4120F-S0012	PEC16-42AAF-S0024
PEC16-2115F-S0012	PEC16-2120F-S0012	PEC16-2220F-S0012	PEC16-2230F-N0024	PEC16-4015F-N0024
PEC16-2015F-N0024	PEC16-2130F-N0012	PEC16-4015F-S0024	PEC16-4020F-S0012	PEC16-4115F-S0012
PEC16-4130F-N0012	PEC16-4030F-N0024			