

## **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	
	2-bit quadrature code
	3 ohms maximum
Dielectric Withstanding Voltage	To megonina & 50 VDO
	50 VAC minimum
· · · · · · · · · · · · · · · · · · ·	100 maximum**
Environmental Characteristics	
	30 °C to +70 °C (-22 °F to +158 °F) 40 °C to +85 °C (-40 °F to +185 °F)
	100 G
Rotational Life	
IP Rating	IP 40
Mechanical Characteristics	
Torque	
Terminals	Printed circuit board terminals
	Printed circuit board terminals
Soldering Condition	Cross E/Aro C/Cros 7 colder with no close flow 000 °C may fee 0 E coopeda
	Sn95.5/Ag2.8/Cu0.7 solder with no-clean flux: 260 °C max. for 3-5 seconds
	3
Switch Characteristics	0
How To Order	Quadrature Output Table
PE	C16 - 4 0 20 F - S 0012
Model	
Terminal Configuration	
2 = PC Pin Vertical/Down Facing	OFF
4 = PC Horizontal/Rear Facing	A Signal — ON
Detent Option —	
0 = No Detents	B Signal
<ul><li>1 = 12 Detents (available with 12 pulses only)</li><li>2 = 24 Detents (available with 24 pulses only)</li></ul>	b Signal —— I
Standard Shaft Length	D
15 = 15 mm	<b>→</b> CCW
20 = 20.0 mm	
$25 = 25.0 \text{ mm}^1$ $30 = 30.0 \text{ mm}^1$	Conitab Civavit
Shaft Style	Switch Circuit
F = Insulated Flatted Shaft	5 /5
Switch Configuration ————————————————————————————————————	
S = Push Momentary Switch N = No Switch	
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:

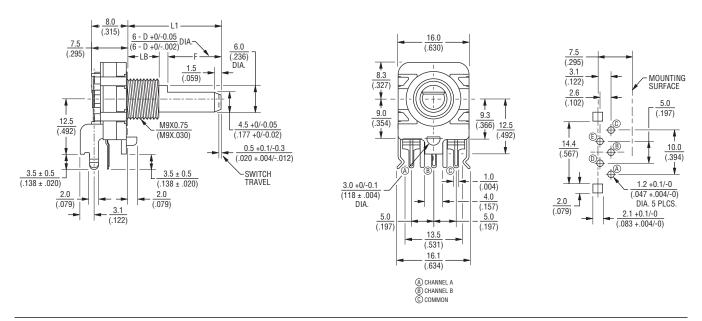
- Audio-visual equipment
- Consumer electric appliances
- Radios
- Musical instrumentation
- Communications equipment

## PEC16 - 16 mm Incremental Encoder

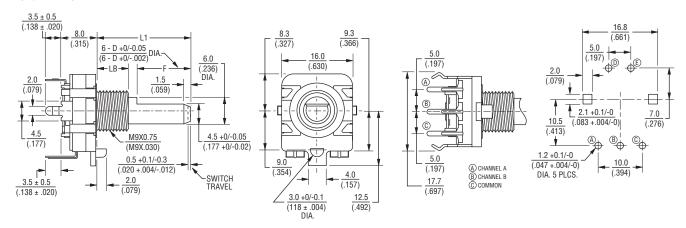
## **BOURNS**®

#### **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)

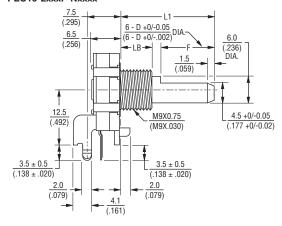
DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

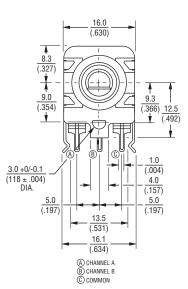
# PEC16 - 16 mm Incremental Encoder

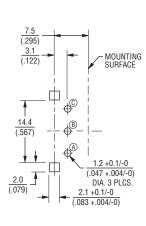
# **BOURNS**®

#### **Product Dimensions**

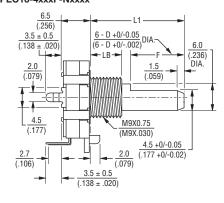
## PEC16-2xxxF-Nxxxx

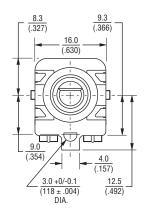


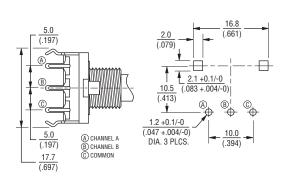




## PEC16-4xxxF-Nxxxx



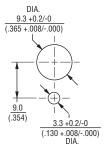




**Panel Hole Detail** 

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:	MM	
	(INCHES)	



#### REV. 11/14