

Features

- Low profile absolute encoder
- High-class rotational feel
- Haptic detent feedback
- Sealed shaft
- Insulated plastic shaft and bushing
- RoHS compliant*



BOURNS®

PAC18R - 18 mm Low Profile Absolute Encoder

Electrical Characteristics

Output......4-bit gray code Contact Rating...... 1 mA @ 10 VDC Insulation Resistance

...... 10 megohms minimum @ 500 VDC Dielectric Withstanding Voltage

Sea Level500 VAC minimum Contact Resistance 100 ohms maximum

Environmental Characteristics

Operating Temperature Range -35 °C to +70 °C (-22 °F to +158 °F) Storage Temperature Range

...... -40 °C to +80 °C (-40 °F to +185 °F) IP Rating..... IP 64

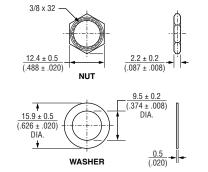
Mechanical Characteristics

RPM (Operating) 60 maximum Mechanical Angle360 ° continuous Torque

Starting and Running 10 to 200 gf-cm Detent350 to 650 gf-cm Mounting 7 kgf-cm maximum Rotational Life...... 30.000 cycles minimum Soldering Condition

Wave Soldering..... 260 °C for 3 seconds Manual Soldering ... 350 °C for 3 seconds Hardware......One flat washer and one hex nut supplied with threaded bushing versions

Hardware





WARNING **Cancer and Reproductive Harm** www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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Additional Information

Click these links for more information:



PRODUCT









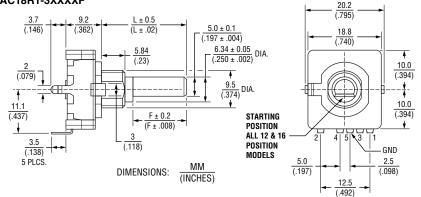
TECHNICAL

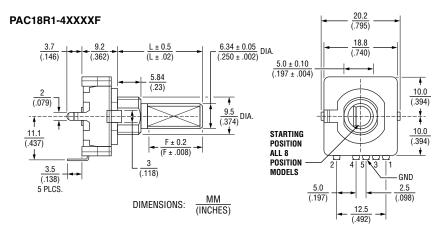
INVENTORY SAMPLES

CONTACT

Product Dimensions

PAC18R1-3XXXXF



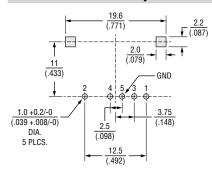


Shaft Configurations

L	19.5	21.5	28.9
	(.768)	(.846)	(1.138)
F	6.5	13.66	15.7
	(.256)	(.548)	(.618)

DIMENSIONS: (INCHES)

Recommended PCB Layout





CAUTION

Do not store product in high temperature and humidity, direct sunlight and/or places where corrosive gases may be generated. Please use product within 6 months from the date of delivery and promptly after unpacking.

PAC18R - 18 mm Low Profile Absolute Encoder

Pin Out Code 8 Positions

Position	Angle in °	P1	P2	P3	P4
1	0	0	0	0	0
2	45	0	1	0	0
3	90	1	1	0	0
4	135	1	1	1	0
5	180	0	1	1	0
6	225	0	1	1	1
7	270	0	0	1	1
8	315	0	0	1	0

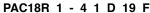
Pin Out Code 12 Positions

Position	Angle in °	P1	P2	Р3	P4
1	0	0	0	0	0
2	30	1	0	0	0
3	60	1	1	0	0
4	90	0	1	0	0
5	120	0	1	1	0
6	150	1	1	1	0
7	180	1	0	1	0
8	210	0	0	1	0
9	240	0	0	1	1
10	270	1	0	1	1
11	300	1	0	0	1
12	330	0	0	0	1

Pin Out Code 16 Positions

Position	Angle in °	P1	P2	Р3	P4
1	0	0	0	0	0
2	22.5	1	0	0	0
3	45	1	1	0	0
4	67.5	0	1	0	0
5	90	0	1	1	0
6	112.5	1	1	1	0
7	135	1	0	1	0
8	157.5	0	0	1	0
9	180	0	0	1	1
10	202.5	1	0	1	1
11	225	1	1	1	1
12	247.5	0	1	1	1
13	270	0	1	0	1
14	292.5	1	1	0	1
15	315	1	0	0	1
16	337.5	0	0	0	1

How To Order



	PAC18R 1 - 4 1 D 19 F
Model Series	
Number of Units	
Orientation 3 = PC-Pins Down Facing, Bushing without Thread 4 = PC-Pins Down Facing, Bushing with Thread	
Position Option 1 = 8 Positions 2 = 12 Positions 3 = 16 Positions	
Detents N = No Detents D = Detents (Positions)	
Shaft Length ————————————————————————————————————	
Shaft Type F = Insulated Flatted Shaft	

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