

Features

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



PAC18R - 18 mm Low Profile Absolute Encoder

Electrical Characteristics

Output	4-bit gray code
Contact Rating	1 mA @ 10 VDC
Insulation Resistance	
10 megohms n	ninimum @ 500 VDC
Dielectric Withstanding	Voltage
Sea Level	500 VAC minimum
Contact Resistance	100 ohms maximum
Environmental Ch	aracteristics
Operating Temperature	Range
35 °C to +70 °C	C (-22 °F to +158 °F)
Storage Temperature F	Range

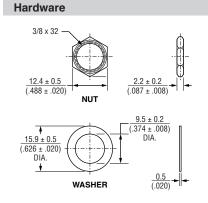
0.	lorage remperature riange	
	40 °C to +80 °C (-40 °F to +185 °	°F)
IP	Rating IP	64

Mechanical Characteristics

RPM (Operating)	60 maximum
Mechanical Angle	360 ° continuous
Torque	
Starting and Running	10 to 200 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





*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

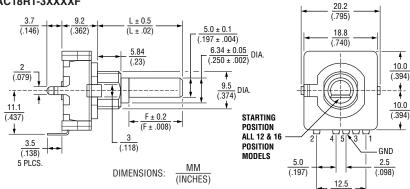




SAMPLES

Product Dimensions

PAC18R1-3XXXXF





Shaft Configurations

19.5

(.768)

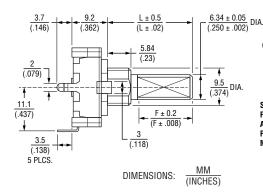
6.5

(.256)

DIMENSIONS:

L

F



21.5

(.846)

13.66

(.548)

MM

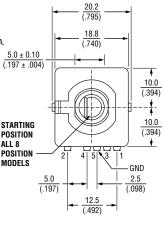
(INCHES)

28.9

(1.138)

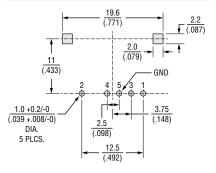
15.7

(.618)



(.492)

Recommended PCB Layout



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	P3	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

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Pin Out Code 16 Positions

Position	Angle in °	P1	P2	P3	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 1 = Single 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 -19 = 19.5 mm21 = 21.5 mm 28 = 28.9 mmShaft Type -

F = Insulated Flatted Shaft

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