

## **12mm Rotary Encoder**

## **Type DP12 Series**

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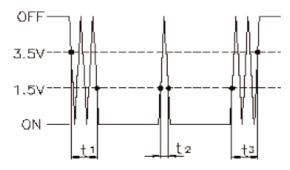
12mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options.

## **Key Features**

- 12mm Rotary Encoder
- Incremental Type
- Push on Switch Option
- Various Shaft Lengths
- Pulse Options
- Detent Options

#### Characteristics - Electrical

Pulses:	12 & 24
Contact Rating:	0.5mA 5VDC
Dielectric Strength:	300VAC / 1mA, 1 minute
Insulation Resistance (min):	100M ohms at 250VAC
Operating Speed (RPM):	60 RPM
Switch Power Rating (where fitted):	5VDC, 10mA (1mA Min)
Switch Contact Resistance:	100m ohm Max
Electrical Travel:	Continuous
Rotational Noise:	t2 = 2.0 ms max (see below)
Chattering:	t1 & t3 = 3.0 ms max (see below)



Code Off area V = 3.5V or more. Code on area V=1.5V or less

# Characteristics - Mechanical

Total Mechanical Travel:	Continuous
Detents:	0, 12, 24
Switch Operating Force:	500+/- 100gf
Switch Travel:	0.5mm
Shaft Type:	F – Flatted
Shaft Length (from Mounting Surface):	17.5, 20, 22.5, 25

### Characteristics - Environmental

Operating Temperature	-30 ~ +70 degrees C
Rotational Life	15,000 Cycles

## **Output Signal Format**

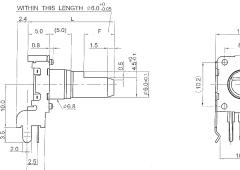
Shaft Rotational Direction	Signal	Format	
Clockwise	A (Terminal A-C)	OFF 7	
	7.((3	ON	
		OFF	
	B (Terminal B-C)	ON	
Anticlockwise		OFF —	
	A (Terminal A-C)	ON	
		OFF 7	
	B (Terminal B-C)	ON L	

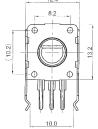


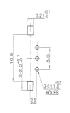
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## **Dimensions** DP12H



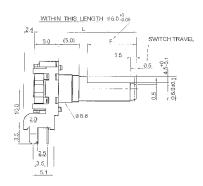


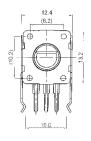


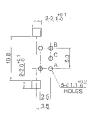


MOUNTING HOLES DETAIL VIEWED FROM MOUNTING SIDE P.C.B. 1=1.6mm

### DP12SH







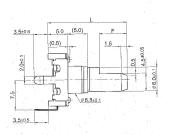
DETAIL OF TERMINALS

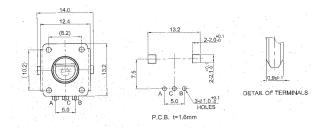
MOUNTING HOLES DETAIL VIEWED FROM MOUNTING SIDE P.C.B. t=1.6mm

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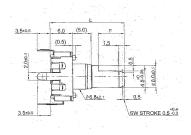
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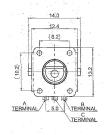
# Dimensions DP12V

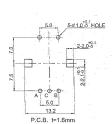




#### **DP12SV**









### **Shaft Length**

L	17.5	20	22.5	25
F	5	7	7	12

