

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# **12mm Rotary Encoder**

## **Type DP12 Series**

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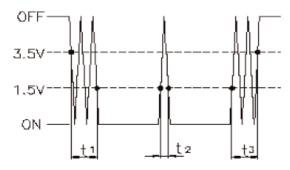
12mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options.

## **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**

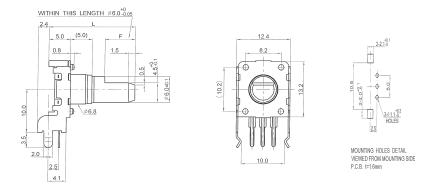
Shaft Rotational Direction	Signal	Format	
Clockwise -	A (Terminal A-C)	OFF 7	
	,	ON	
		OFF T	
	B (Terminal B-C)	ON	
Anticlockwise	A (Terminal A-C)	OFF T	
	A (Terminal A-O)	ON	
		OFF ¬ ¬	
	B (Terminal B-C)		
		ON ON	



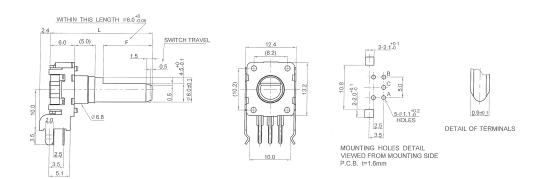
# **12mm Rotary Encoder**

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## Dimensions DP12H



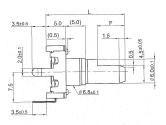
### DP12SH

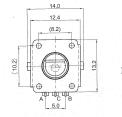


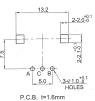


## **Type DP12 Series**

# Dimensions DP12V

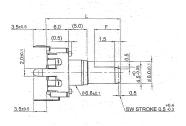


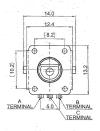


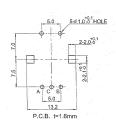




#### **DP12SV**









### **Shaft Length**

L	17.5	20	22.5	25
F	5	7	7	12

