

12mm Rotary Encoder

Type DP12 Series

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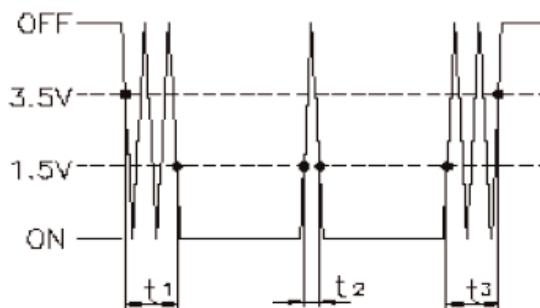
12mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options.

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:	$t_2 = 2.0$ ms max (see below)
Chattering:	t_1 & $t_3 = 3.0$ ms max (see below)



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

Characteristics - Mechanical

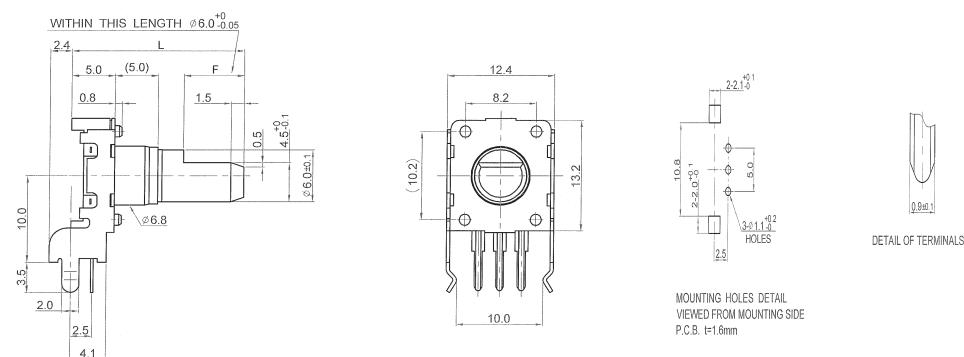
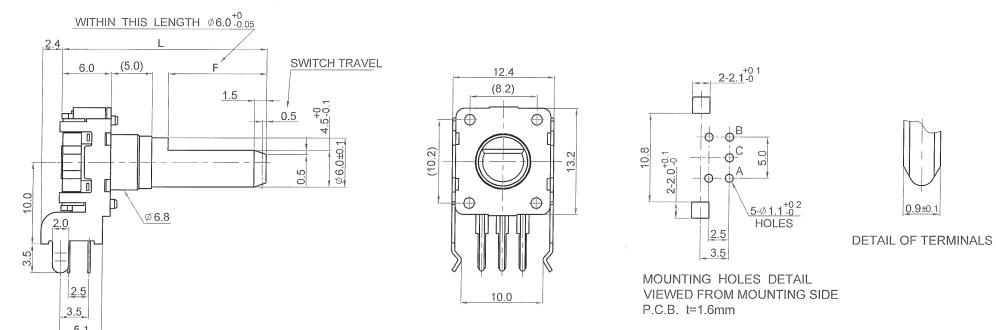
Total Mechanical Travel:	Continuous
Detents:	0, 12, 24
Switch Operating Force:	500+/- 100gf
Switch Travel:	0.5mm
Shaft Type:	F – Flattened
Shaft Length (from Mounting Surface):	17.5, 20, 22.5, 25

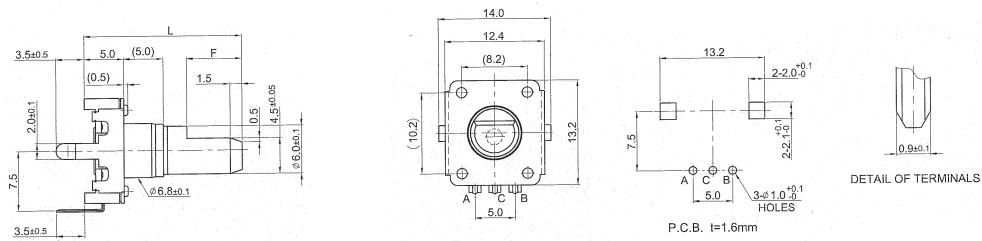
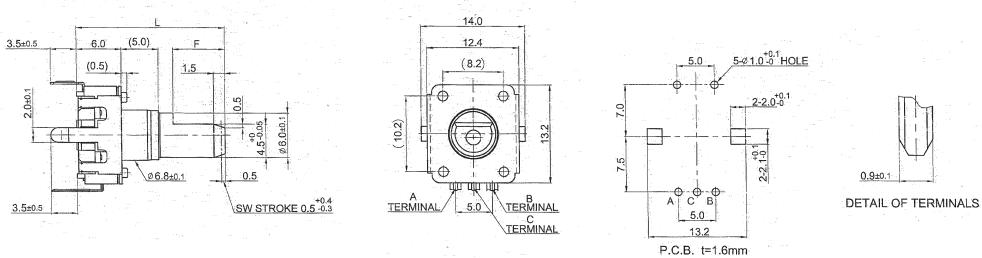
Characteristics - Environmental

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 ON
	B (Terminal B-C)	OFF ON
Anticlockwise	A (Terminal A-C)	OFF ON
	B (Terminal B-C)	OFF ON

**Dimensions
DP12H**

DP12SH


**Dimensions
DP12V**

DP12SV

Shaft Length

L	17.5	20	22.5	25
F	5	7	7	12

How to Order

DP12	H	N	12	A	20	F
Common Part	Orientation	Detent	Pulses	Bush Details	Shaft Length	Shaft Style
DP12 – No Switch	H - Horizontal	N - None	12 – 12 Pulses	A – 5mm V & H Standard	17.5 – 17.5mm	F - Flatted
DP12S – With Switch	V - Vertical	12 – 12 clicks	24 – 24 Clicks		20 – 20mm	