

12mm Rotary Encoder

Type DP12 Series



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

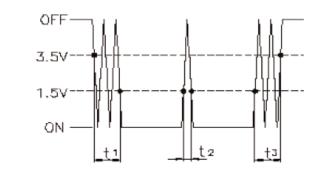
Key Features

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

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Characteristics -Electrical

| 12 & 24 |
|----------------------------------|
| 0.5mA 5VDC |
| 300VAC / 1mA, 1 minute |
| 100M ohms at 250VAC |
| 60 RPM |
| 5VDC, 10mA (1mA Min) |
| 100m ohm Max |
| Continuous |
| t2 = 2.0 ms max (see below) |
| 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 |
| CIUCKWISE | B (Terminal B-C) | OFF |
| A sticle should be | A (Terminal A-C) | OFF ON |
| Anticlockwise | B (Terminal B-C) | OFF |

Dimensions are shown for reference purposes only.

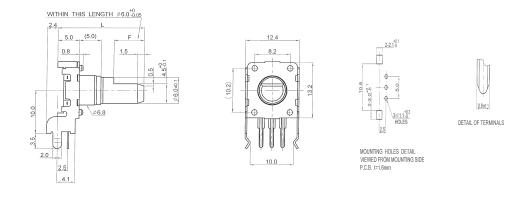
Dimensions are in millimetres unless otherwise specified. Specifications subject to change.



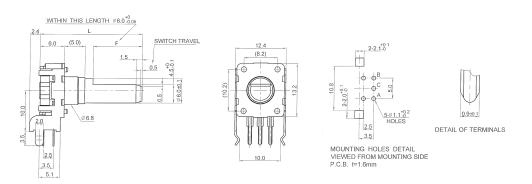
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Dimensions DP12H



DP12SH



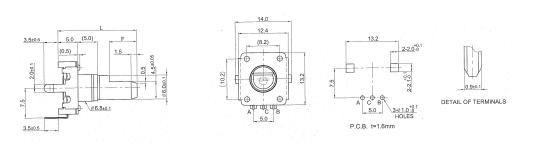
Literature No. 1773449-9 Issued: 02-08 Dimensions are shown for reference purposes only.

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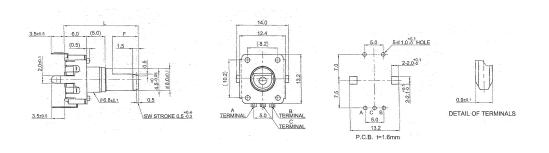


Type DP12 Series

Dimensions DP12V



DP12SV



| Shaft Leng | th | | | |
|------------|------|----|------|----|
| L | 17.5 | 20 | 22.5 | 25 |
| F | 5 | 7 | 7 | 12 |
| | | | | |

| How to Order | r | | | | | |
|--|--------------------------------|--|----------------------------------|---------------------------|--|-------------|
| DP12 | н | N | 12 | A | 20 | F |
| Common Part | Orientation | Detent | Pulses | Bush Details | Shaft Length | Shaft Style |
| DP12 – No Switch DP12S – With Switch | H - Horizontal V - Vertical | N - None 12 – 12 clicks 24 – 24 Clicks | 12 – 12 Pulses 24 – 24 Pulses | A – 5mm V & H Standard | 17.5 – 17.5mm 20 – 20mm 22.5 – 22.5mm 25 – 25mm | F - Flatted |

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TE Connectivity: DP12SH2424A17.5F