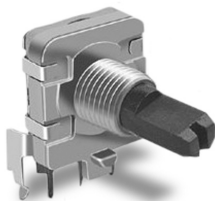


## 16mm Rotary Encoder

### Type DP16 Series

#### Type DP16 Series



16mm Rotary incremental encoder for use in electronic equipment.

Can be supplied with customisation to standard options

#### Key Features

- 16mm Rotary Encoder
- Incremental Type
- Various Shaft Lengths
- Pulse Options
- Detent Options

#### Characteristics - Electrical

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Pulses:                      | 12 & 24                                                  |
| Contact Rating:              | 5VDC @ 5mA                                               |
| Dielectric Strength:         | 50VAC / 1mA, 1 minute                                    |
| Insulation Resistance (min): | 10M ohms at 50VDC                                        |
| Operating Speed (RPM):       | 60 RPM                                                   |
| Electrical Travel:           | Continuous                                               |
| Rotational Noise:            | t <sub>2</sub> = 2.0 ms max (see below)                  |
| Chattering:                  | t <sub>1</sub> & t <sub>3</sub> = 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   |
| Shaft Type:                           | F – Flatted |
| Shaft Length (from Mounting Surface): | 15, 20, 25  |

#### Characteristics - Environmental

|                       |                     |
|-----------------------|---------------------|
| Operating Temperature | -10 ~ +70 degrees C |
| Rotational Life       | 15,000 Cycles       |

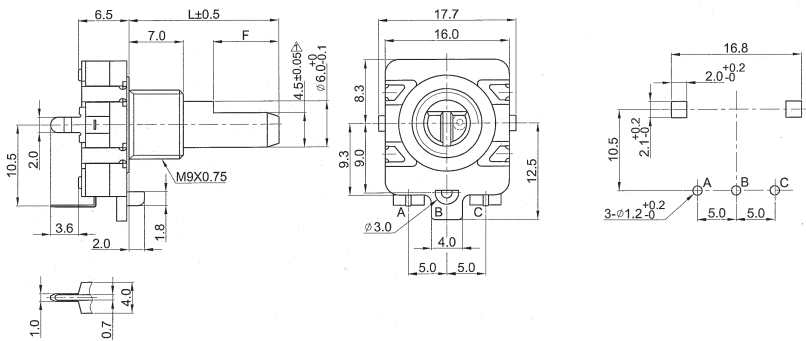
#### Output Signal Format

| Shaft Rotational Direction | Signal           | Format                                                                                                                                                                                |
|----------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clockwise                  | A (Terminal A-C) | OFF <br>ON  |
|                            | B (Terminal B-C) | OFF <br>ON  |
| Anticlockwise              | A (Terminal A-C) | OFF <br>ON  |
|                            | B (Terminal B-C) | OFF <br>ON  |

### Dimensions DP16H



### DP16V



### Shaft Length

| L | 15 | 20 | 25 |
|---|----|----|----|
| F | 7  | 12 | 12 |

### How to Order

| DP16             | H                              | N                                            | 12                               | A                  | 15                                  | F           |
|------------------|--------------------------------|----------------------------------------------|----------------------------------|--------------------|-------------------------------------|-------------|
| Common Part      | Orientation                    | Detent                                       | Pulses                           | Bush Details       | Shaft Length                        | Shaft Style |
| DP16 – No Switch | H - Horizontal<br>V - Vertical | N - None<br>12 – 12 Clicks<br>24 – 24 Clicks | 12 – 12 Pulses<br>24 – 24 Pulses | A – 5mm<br>B – 7mm | 15 – 15mm<br>20 – 20mm<br>25 – 25mm | F - Flatted |

# Mouser Electronics

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