

16mm Rotary Encoder

Type DP16 Series

16mm Rotary incremental encoder for

Can be supplied with customisation to

16mm Rotary EncoderIncremental Type

Various Shaft Lengths

use in electronic equipment.

standard options

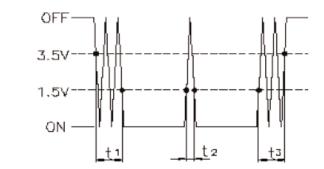
Key Features

Pulse OptionsDetent Options

Characteristics -Electrical

Type DP16 Series

| 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: | 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

| M | ec | :na | ani | ca | | |
|---|----|-----|-----|----|--|--|
| | | | | | | |
| _ | | | | | | |

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

Literature No. 1-1773449-1 Issued: 02-08

Dimensions are shown for reference purposes only.

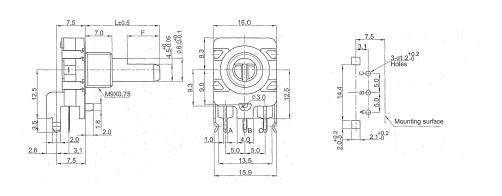
Dimensions are in millimetres unless otherwise specified. Specifications subject to change.



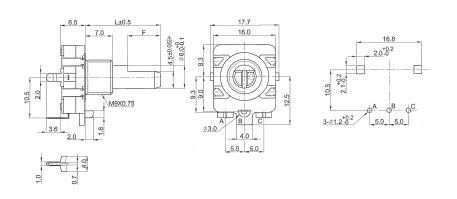
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Dimensions DP16H



DP16V



Shaft Length

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

| How to Order | r | | | | | |
|------------------|--------------------------------|--|----------------------------------|---------------------|-------------------------------------|-------------|
| DP16 | н | N | 12 | Α | 15 | F |
| Common Part | Orientation | Detent | Pulses | Bush Details | Shaft Length | Shaft Style |
| DP16 – No Switch | H - Horizontal V - Vertical | N - None 12 – 12 Clicks 24 – 24 Clicks | 12 – 12 Pulses 24 – 24 Pulses | A – 5mm B – 7mm | 15 – 15mm 20 – 20mm 25 – 25mm | F - Flatted |

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Mouser Electronics

Authorized Distributor

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TE Connectivity: DP16HN24A20F