

11mm Rotary Encoder

Type DP11 Series

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11mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

Key Features

- 11mm Rotary Encoder
- Incremental Type
- Push on Switch Option
- Various Shaft Lengths
- Pulse Options
- Detent Options

Characteristics - Electrical

| | |
|-------------------------------------|----------------------------------|
| Pulses: | 15, 20 |
| Contact Rating: | 10mA 5VDC |
| Dielectric Strength: | 300VAC / 1mA, 1 minute |
| Insulation Resistance (min): | 100M ohms at 250VAC |
| Operating Speed (RPM): | 60 RPM |
| Switch Power Rating (where fitted): | 16VDC, 3A (10mA 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, 20, 30 |
| Switch Operating Force: | 612+/- 306gf (for 1.5mm Switch Travel 400+/- 200gf) |
| Switch Travel: | 0.5mm (1.5mm available on request) |
| Shaft Type: | F – Flatted, K – Knurled, S – Slotted, P – Plain |
| Shaft Length (from Mounting Surface): | 15, 20, 25, 30 (FMF) |

Characteristics - Environmental

| | |
|-----------------------|---------------------|
| Operating Temperature | -10 ~ +45 degrees C |
| Rotational Life | 15,000 Cycles |

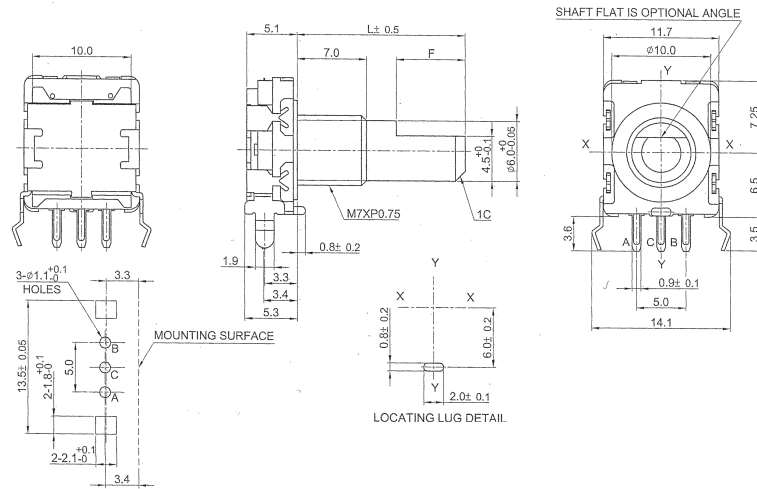
Output Signal Format

| 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  |

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Dimensions DP11H



DP11SH



Dimensions DP11V



DP11SV



Shaft Dimensions

| Bush | | 5mm | | | | 7mm | | | |
|-------|------|-----|----|----|----|-----|----|----|----|
| Shaft | Code | | | | | | | | |
| K | L | 15 | 20 | 25 | 30 | 15 | 20 | 25 | 30 |
| | T1 | 7 | 7 | 11 | 14 | 6 | 7 | 11 | 14 |
| | T | 6 | 6 | 10 | 12 | 5 | 6 | 10 | 12 |
| | M | 2 | 2 | 2 | 4 | 1 | 1 | 2 | 4 |
| F | L | 15 | 20 | 25 | 30 | 15 | 20 | 25 | 30 |
| | F | 7 | 12 | 12 | 12 | 5 | 7 | 12 | 12 |

How to Order

| DP11 | H | N | 15 | A | 15 | F |
|---|--------------------------------|--|----------------------------------|---|--|--|
| Common Part | Orientation | Detent | Pulses | Bush Details | Shaft Length | Shaft Style |
| DP11 – No Switch DP11S – With Switch | H - Horizontal V - Vertical | N - None 20 – 20 clicks 30 – 30 clicks | 15 – 15 Pulses 20 – 20 Pulses | A – M7 x 5mm B – M7 x 7mm (standard) | 15 – 15mm FMF 20 – 20mm FMF 25 – 25mm FMF 30 – 30mm FMF | K - Knurled F - Flatted S - Slotted P - Plain |

Mouser Electronics

Authorized Distributor

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[DP11SVN15A30P](#)