

11mm Rotary Encoder

Type DP11 Series

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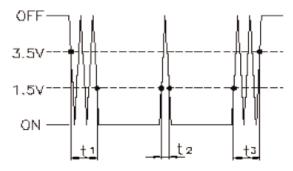
11mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

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

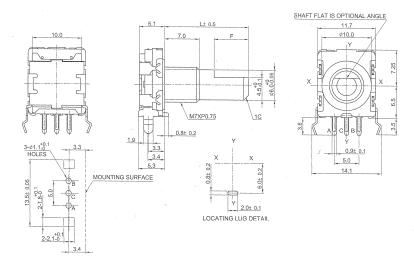
| Shaft Rotational Direction | Signal | Format | | | |
|-------------------------------|------------------|---------|--|--|--|
| Clockwise | A (Terminal A-C) | OFF 7 | | | |
| | , , | ON | | | |
| Olockwise | | OFF T | | | |
| | B (Terminal B-C) | ON L | | | |
| Anticlockwise | | OFF — — | | | |
| | A (Terminal A-C) | | | | |
| | | ON | | | |
| | B (T : 150) | OFF 7 | | | |
| | B (Terminal B-C) | ON | | | |
| | | 0 | | | |



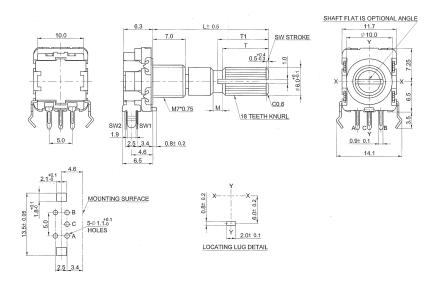


Type DP11 Series

Dimensions DP11H



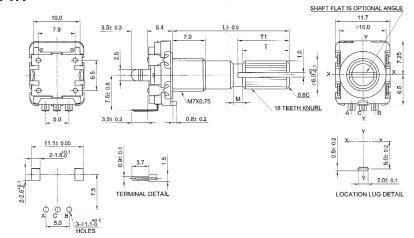
DP11SH



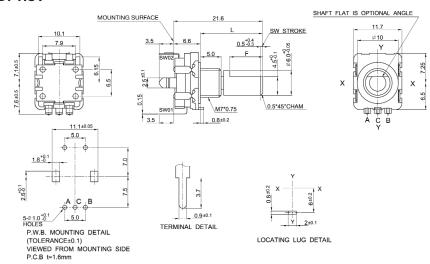


Type DP11 Series

Dimensions DP11V

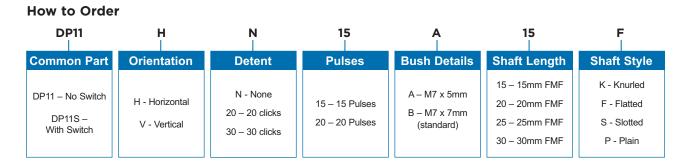


DP11SV



Shaft Dimensions

| Bush | | | F | | | | 7 | | |
|-------|------|-----|----|----|----|-----|----|----|----|
| Shaft | Code | 5mm | | | | 7mm | | | |
| К | L | 15 | 20 | 25 | 30 | 15 | 20 | 25 | 30 |
| | T1 | 7 | 7 | 11 | 14 | 6 | 7 | 11 | 14 |
| | Т | 6 | 6 | 10 | 12 | 5 | 6 | 10 | 12 |
| | М | 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 |



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TE Connectivity:

DP11H3015A30F