

9mm Rotary Encoder

Type DP09 Series

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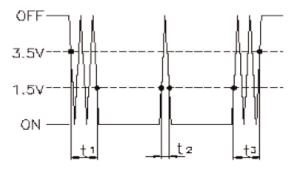
9mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

Key Features

- 9mm Rotary Encoder
- Incremental Type
- Push on Switch Option
- Various Shaft Lengths
- Pulse Options
- Detent Options

Characteristics -Electrical

| Pulses: | 12 & 15 |
|-------------------------------------|----------------------------------|
| 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): | 12VDC, 0.5A |
| Switch Contact Resistance: | 100m ohm |
| Electrical Travel: | Continuous |
| Rotational Noise: | t2 = 5.0ms max (see below) |
| Chattering: | t1 & t3 = 5.0 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, 30 |
| Switch Operating Force: | 400 + 400/- 200 gf |
| Switch Travel: | 1.5mm |
| Shaft Type: | F – Flatted, K – Knurled |
| Shaft Length (from Mounting Surface): | 15, 20, 25, 30 |

Characteristics -Environmental

| Operating Temperature | -10 - +65 degrees C |
|-----------------------|---------------------|
| Rotational Life | 30,000 Cycles |

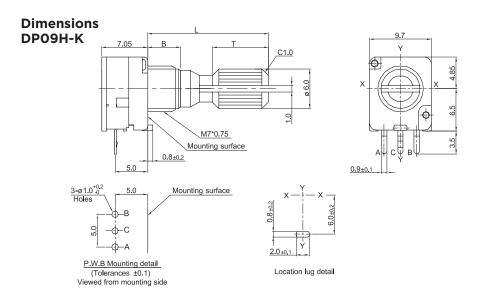
Output Signal Format

| Shaft Rotational Direction | Signal | Format | |
|-------------------------------|------------------|---------|--|
| Clockwise - | A (Terminal A-C) | OFF 7 | |
| | (| ON | |
| | | OFF | |
| | B (Terminal B-C) | ON | |
| Anticlockwise | | OFF — — | |
| | A (Terminal A-C) | он | |
| | 2 (7 | OFF 7 T | |
| | B (Terminal B-C) | on L | |

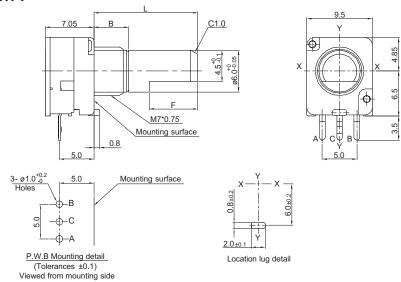




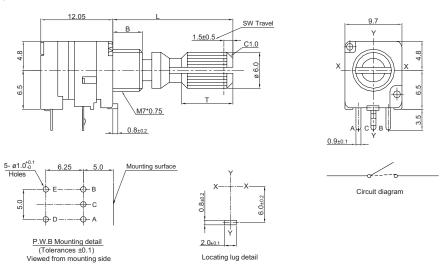
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DP09H-F



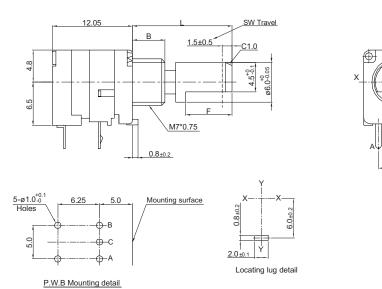
DP09SH-K



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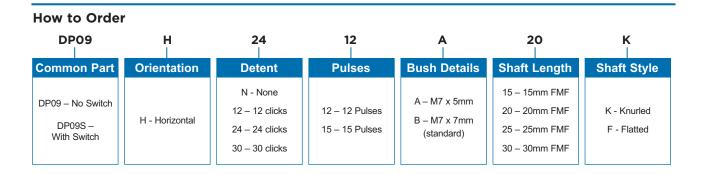
Dimensions DP09SH-F



Shaft Dimensions

(Tolerances ±0.1)
Viewed from mounting side

| Shaft | Dim. | | | | |
|-------|------|----|----|----|----|
| K | L | 15 | 20 | 25 | 30 |
| | Т | 7 | 12 | 12 | 14 |
| F | L | 15 | 20 | 25 | 30 |
| | F | 7 | 12 | 12 | 12 |
| В | В | 5 | 7 | - | - |



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TE Connectivity:

DP09SHN15A30F