

### 9mm Rotary Encoder

# **Type DP09 Series**



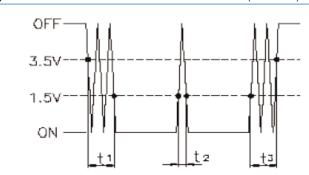
**Type DP09 Series** 

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)

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



#### 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
	A (Terminal A-C)	OFF
Clockwise		
	B (Terminal B-C)	
Anticlockwise	A (Terminal A-C)	OFF ON
	B (Terminal B-C)	OFF

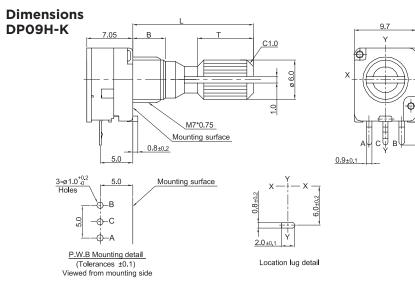
Literature No. 6-1773449-8 Dimensions are shown for reference purposes only.

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



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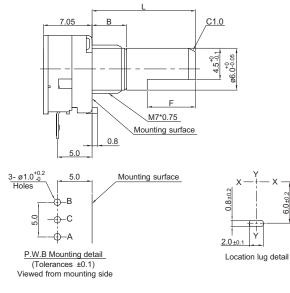


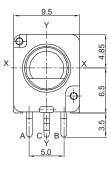
DP09H-F

**DP09SH-K** 

4.8

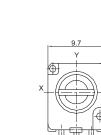
6.5

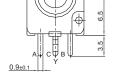




4 85

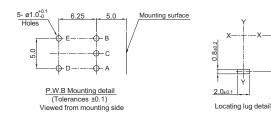
3.5





Circuit diagram

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В

M7\*0.75

0.8±0.2



6.0±0.2

SW Travel

C1.0

1.5±0.5

Literature No. 6-1773449-8 Issued: 2-08

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12.05

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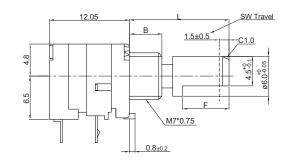
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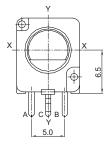


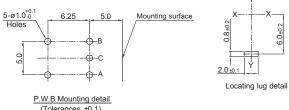
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### **Dimensions** DP09SH-F







(Tolerances ±0.1) Viewed from mounting side

### **Shaft Dimensions**

Shaft	Dim.				
к	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	-	-

6.0±0.3

How to Order						
DP09	н	24	12	A	20	K
<b>Common Part</b>	Orientation	Detent	Pulses	Bush Details	Shaft Length	Shaft Style
DP09 – No Switch DP09S – With Switch	H - Horizontal	N - None 12 – 12 clicks 24 – 24 clicks 30 – 30 clicks	12 – 12 Pulses 15 – 15 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

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# **Mouser Electronics**

Authorized Distributor

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TE Connectivity: DP09SHN12B30K