

## 9mm Rotary Encoder

#### **Type DP09 Series**

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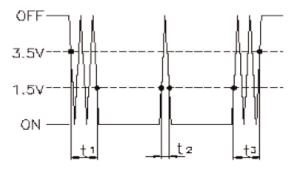
9mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

#### **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

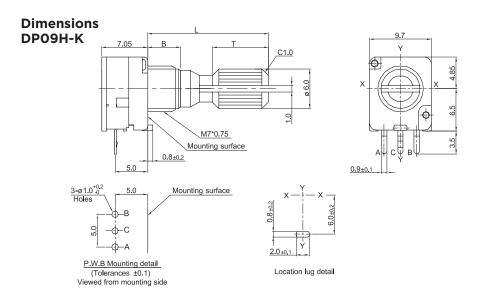
#### **Output Signal Format**

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	

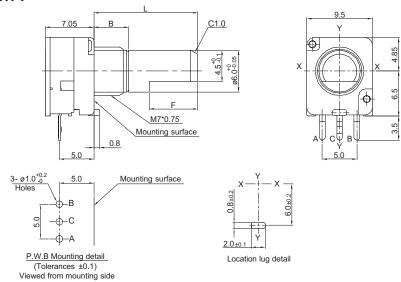




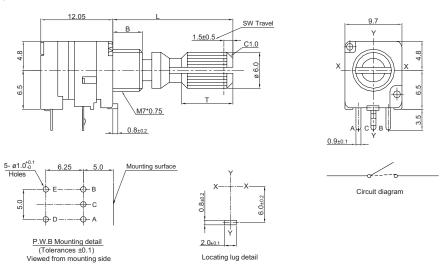
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#### DP09H-F



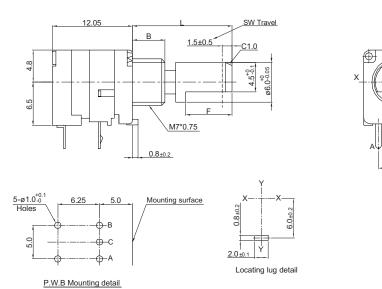
#### DP09SH-K



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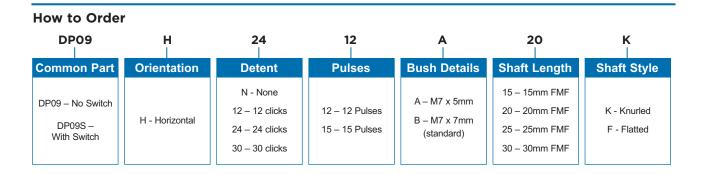
# Dimensions DP09SH-F



#### **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	-	-



# **Mouser Electronics**

**Authorized Distributor** 

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TE Connectivity: DP09SH1212B20K