

9mm Rotary Encoder

Type DP09 Series

Type DP09 Series



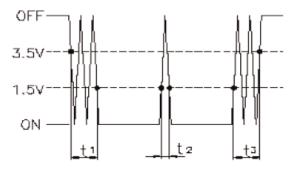
9mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

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

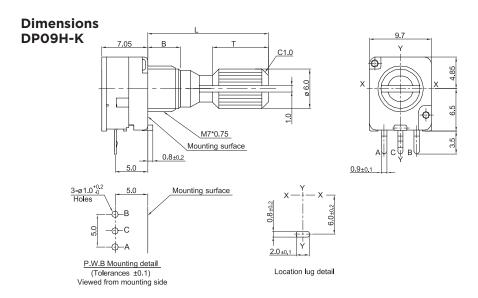
Output Signal Format

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	

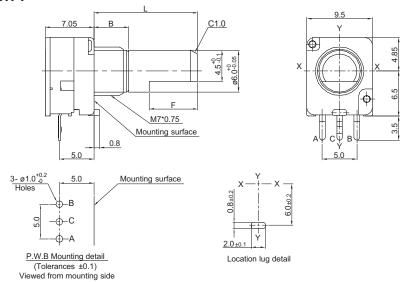




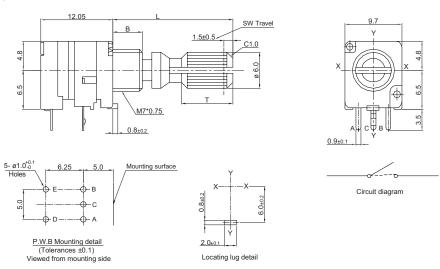
Type DP09 Series



DP09H-F



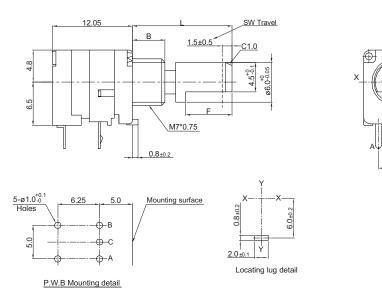
DP09SH-K



9mm Rotary Encoder

Type DP09 Series

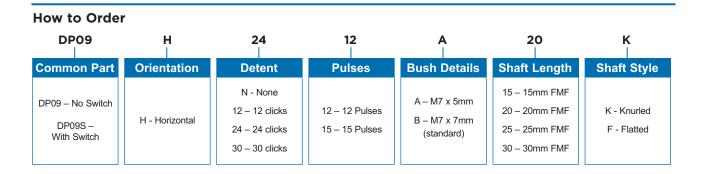
Dimensions DP09SH-F



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

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: DP09SH2412B25F