

## 11mm Rotary Encoder

### **Type DP11 Series**

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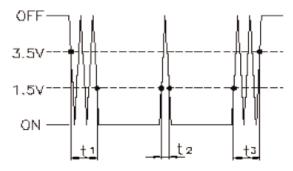
11mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

### **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**

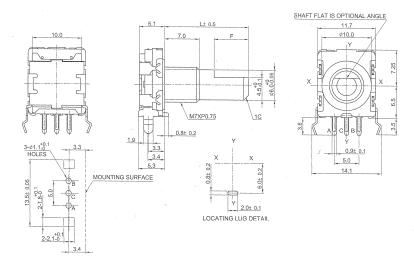
Shaft Rotational Direction	Signal	Format
Clockwise	A (Terminal A-C)	OFF 7
	, ,	ON
Olockwise		OFF T
	B (Terminal B-C)	ON L
Anticlockwise		OFF — —
	A (Terminal A-C)	
		ON
	B (T : 150)	OFF 7
	B (Terminal B-C)	ON
		0



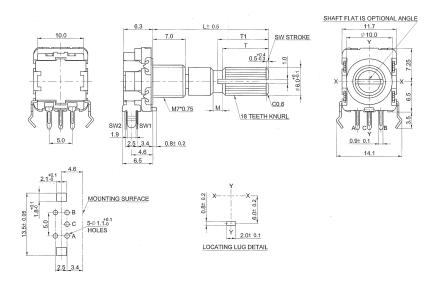


## **Type DP11 Series**

### Dimensions DP11H



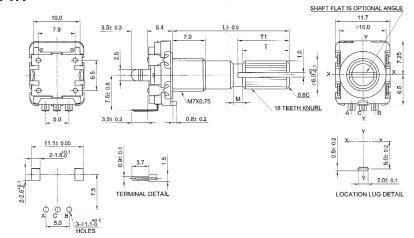
### DP11SH



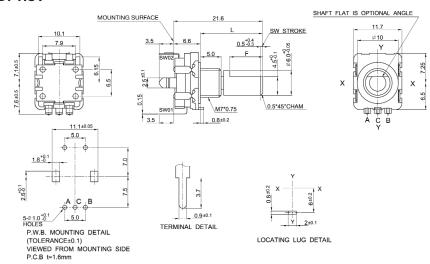


## **Type DP11 Series**

# Dimensions DP11V

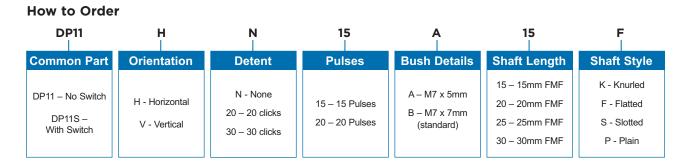


#### **DP11SV**



#### **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



## **Mouser Electronics**

**Authorized Distributor** 

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TE Connectivity:

DP11VN20A20F