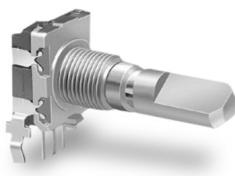


## 11mm Rotary Encoder

### Type DP11 Series

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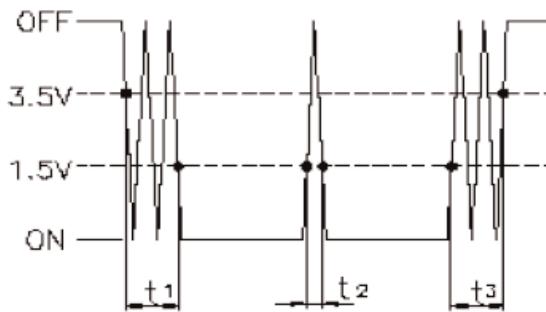
11mm Rotary incremental encoder for use in electronic equipment. Can be supplied with or without switch with customisation to standard options

#### 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:	$t_2 = 2.0$ ms max (see below)
Chattering:	$t_1$ & $t_3 = 3.0$ ms max (see below)



Code Off area V = 3.5V or more. Code on area V=1.5V or less

#### Characteristics - Mechanical

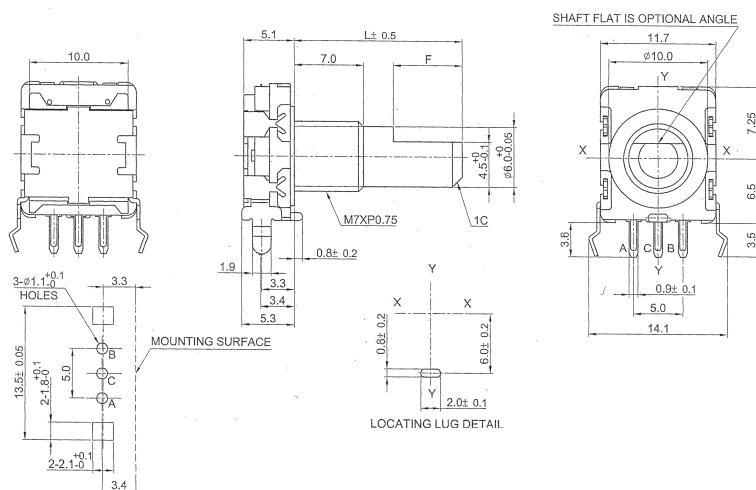
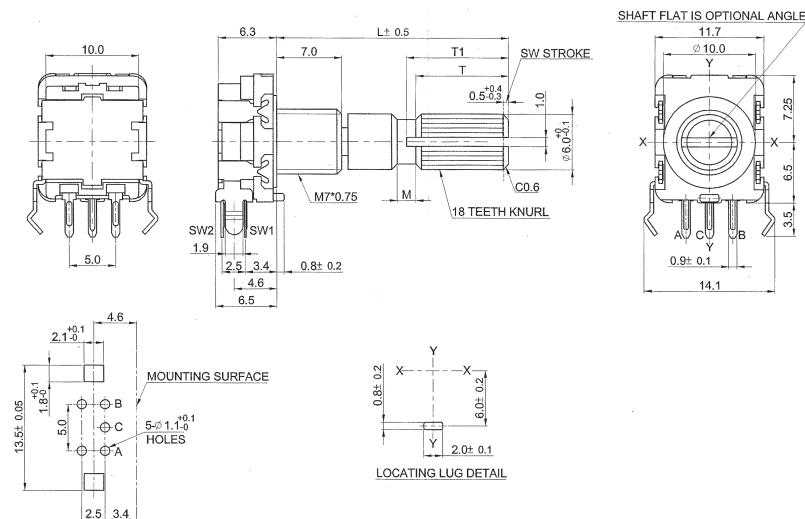
Total Mechanical Travel:	Continuous
Detents:	0, 20, 30
Switch Operating Force:	612+/- 306gf (for 1.5mm Switch Travel 400+/- 200gf)
Switch Travel:	0.5mm (1.5mm available on request)
Shaft Type:	F – Flatted, K – Knurled, S – Slotted, P - Plain
Shaft Length (from Mounting Surface):	15, 20, 25, 30 (FMF)

#### Characteristics - Environmental

Operating Temperature	-10 ~ +45 degrees C
Rotational Life	15,000 Cycles

#### Output Signal Format

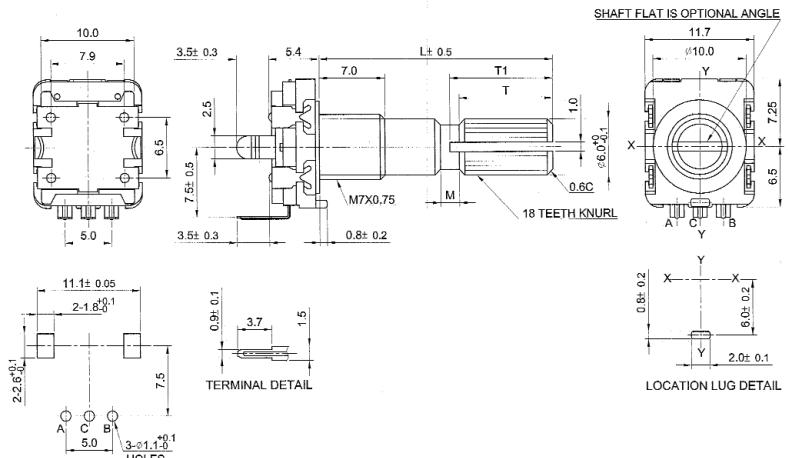
Shaft Rotational Direction	Signal	Format
Clockwise	A (Terminal A-C)	OFF ON
	B (Terminal B-C)	OFF ON
Anticlockwise	A (Terminal A-C)	OFF ON
	B (Terminal B-C)	OFF ON

**Dimensions  
DP11H**

**DP11SH**


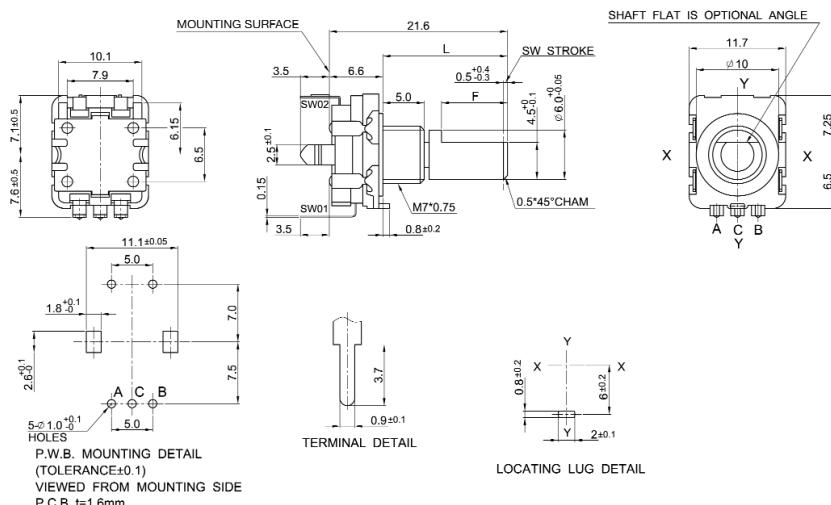
## 11mm Rotary Encoder

### Type DP11 Series

#### Dimensions DP11V



#### DP11SV



#### Shaft Dimensions

Bush		5mm				7mm			
Shaft	Code	15	20	25	30	15	20	25	30
K	L	15	20	25	30	15	20	25	30
	T1	7	7	11	14	6	7	11	14
	T	6	6	10	12	5	6	10	12
	M	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

#### How to Order

DP11	H	N	15	A	15	F
Common Part	Orientation	Detent	Pulses	Bush Details	Shaft Length	Shaft Style
DP11 – No Switch	H - Horizontal	N - None	15 – 15 Pulses	A – M7 x 5mm	15 – 15mm FMF	K - Knurled
DP11S – With Switch	V - Vertical	20 – 20 clicks	15 – 20 Pulses	B – M7 x 7mm (standard)	20 – 20mm FMF	F - Flattened
		30 – 30 clicks	20 – 20 Pulses		25 – 25mm FMF	S - Slotted
					30 – 30mm FMF	P - Plain

# Mouser Electronics

Authorized Distributor

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

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[DP11V3015B25F](#)