

### Type DP11 Series



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

#### **Key Features**

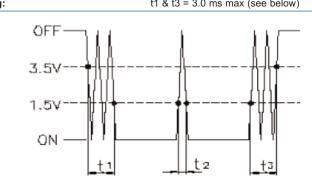
- 11mm Rotary Encoder
- Incremental Type
- Push on Switch Option
- Various Shaft Lengths
- Pulse Options
- Detent Options

# Type DP11 Series

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

Dimensions are shown for reference purposes only.

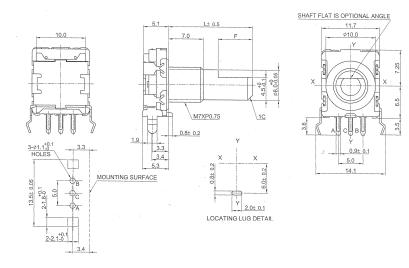
Dimensions are in millimetres unless otherwise specified. Specifications subject to change.



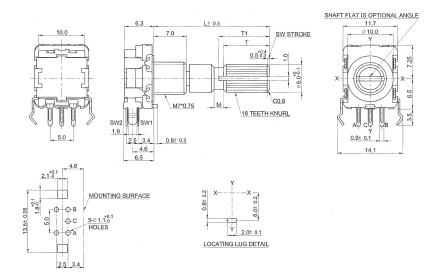
## 11mm Rotary Encoder

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#### Dimensions DP11H



#### DP11SH



Literature No. 1773449-8 Issued: 02-08 Dimensions are shown for reference purposes only.

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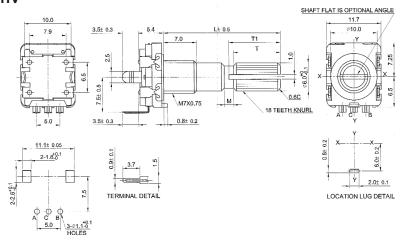


#### **11mm Rotary Encoder**

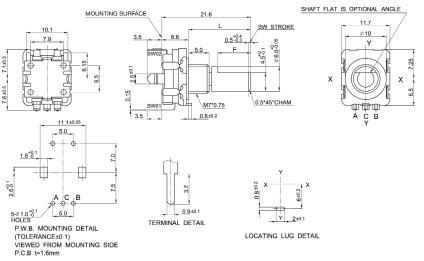
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## Dimensions





#### DP11SV



#### **Shaft Dimensions**

Bush		5mm				7mm			
Shaft	Code		511	1111		7 11111			
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

#### How to Order

DP11	н	N	15	A	15	F
<b>Common Part</b>	Orientation	Detent	Pulses	Bush Details	Shaft Length	Shaft Style
DP11 – No Switch DP11S – With Switch	H - Horizontal V - Vertical	N - None 20 – 20 clicks 30 – 30 clicks	15 – 15 Pulses 20 – 20 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 S - Slotted P - Plain

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TE Connectivity: DP11SV2020B25F