### Model EN11 Series

#### Features:

- 11 mm
- 2 bits gray code
- Incremental/contacting type
- Metal bushing/shaft
- Push-on switch option





### **Model Styles Available**

Top Adjust, with Switch, Threaded Bushing	EN11-HSM
Top Adjust, without Switch, Threaded Bushing	EN11-HNM
Top Adjust, with Switch, Plain Bushing	EN11-HSB
Top Adjust, without Switch, Plain Bushing	EN11-HNB
Side Adjust, with Switch, Threaded Bushing	EN11-VSM
Side Adjust, without Switch, Threaded Bushing	EN11-VNM
Side Adjust, with Switch, Plain Bushing	EN11-VSB
Side Adjust, without Switch, Plain Bushing	EN11-VNB
Electrical	
Pulses ( Per Revolution )	15, 20
Encoder Closed Circuit Resistance	3 Ohms, max.
Encoder Contact Rating	10mA/ 5Vdc

Encoder Contact Rating	TUTIAV SVOC
Operating Current, Maximum	10mA
Dielectric Strength	300Vac/1mA, I minute
Insulation Resistance, Minimum	100M ohms at 250Vdc/ 1mA
Sliding Noise ( at 60 RPM )	2.0ms max.
Contact Bounce ( at 15 RPM)	5.0ms max.
Operating Speed ( RPM )	100 RPM max.
Switch Power rating	10mA/ 5Vdc
Switch Contact Resistance	100 milliohms
Actual Electrical Travel, Nominal	Continuous

### Mechanical

Total Mechanical Travel	Continuous
Detents (per Revolution)	0, 20 and 30
Rotational Torque of Detent, Maximum	2.5 oz-in
Switch Operating Force	550 gf
Switch Travel	0.5mm

General Note

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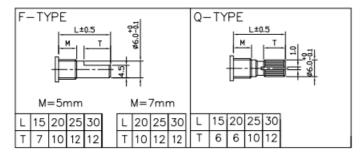
Model EN11 Series



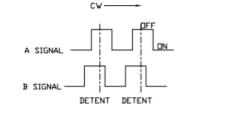
Rotational Life 30,000 cycles Ordering EN11 - VSM 1 A F 20 Model Series Shaft Length "L" see below Shaft Type Style Bushing Length (M) Detents : A = 5mm 0 = No Detent / 20 PPR B = 7mm 1 = 20 Detents / 20 PPR 2 = No Detent / 15 PPR 3 = 30 Detents / 15PPR

**Environmental** 

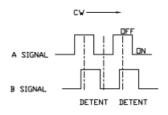
#### Shaft Types







For 20 PPR (B leads A)



For 15 PPR (A leads B)

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Model EN11 Series

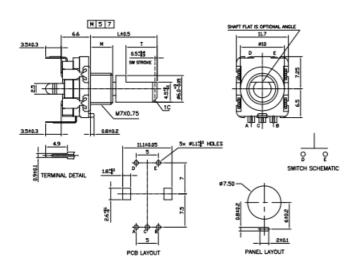


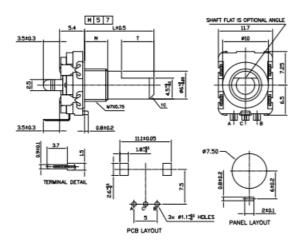
### **Outline Drawings**

MODEL EN11-HNM

### MODEL EN11-HSM

(Top Adjust, with Switch, Threaded Bushing)

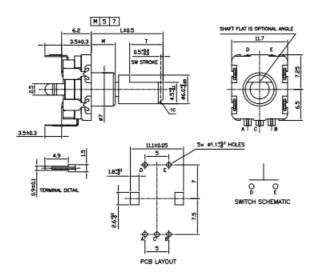


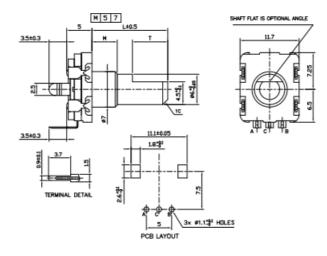


(Top Adjust, without Switch, Threaded Bushing)

#### MODEL EN11-HSB (Top Adjust, with Switch, Plain Bushing)

#### MODEL EN11-HNB (Top Adjust, without Switch, Plain Bushing)





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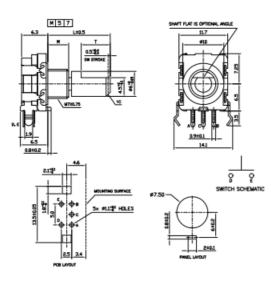
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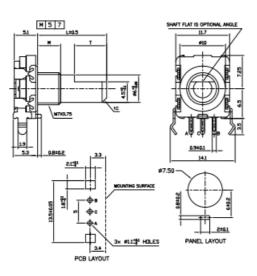
Model EN11 Series



### **Outline Drawings**

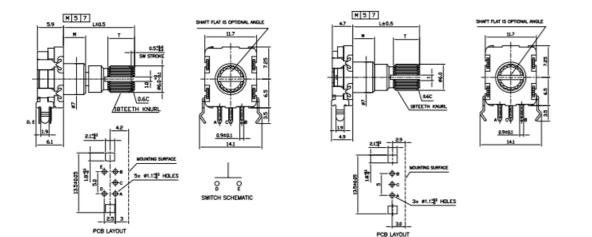
MODEL EN11-VSM (Side Adjust, with Switch, Threaded Bushing) MODEL EN11-VNM (Side Adjust, without Switch, Threaded Bushing)





MODEL EN11-VSB (Side Adjust, with Switch, Plain Bushing)

MODEL EN11-VNB (Side Adjust, without Switch, Plain Bushing)



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