

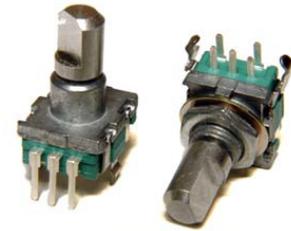
Rotary Encoder

Model EN11



Features:

- 11mm rotary encoder
- 2 bits gray code
- Incremental/Contacting type
- Metal bushing/shaft
- Push-on switch option
- RoHS compliant



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

Electrical¹

Pulses (per revolution)	15, 20
Encoder closed circuit resistance	3 Ohms, max.
Encoder contact rating	10mA/5Vdc
Operating current, maximum	10mA
Dielectric strength	300Vac/1mA, 1 minute
Insulation resistance, minimum	100M ohms at 250Vdc/ 1 mA
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 miliohms
Actual electrical travel, nominal	Continuous

1 Specifications subject to change without notice

General Note

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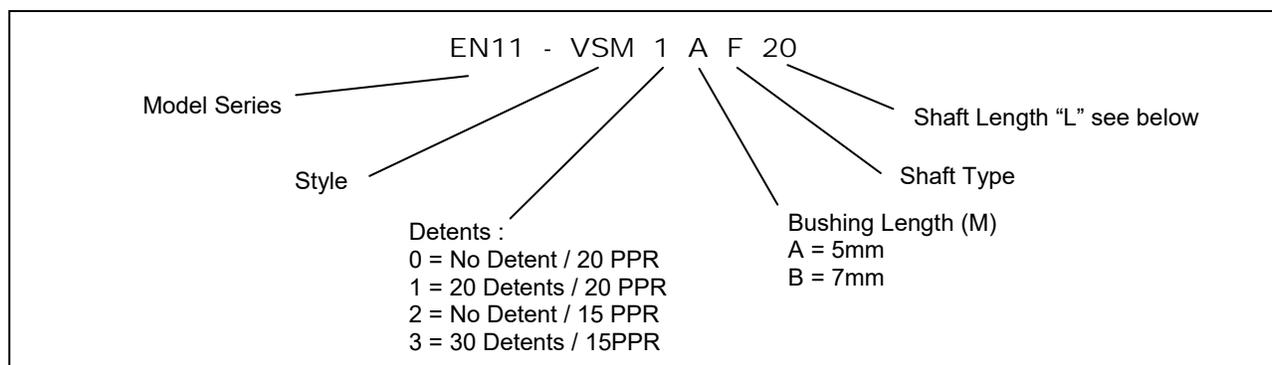
Mechanical

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

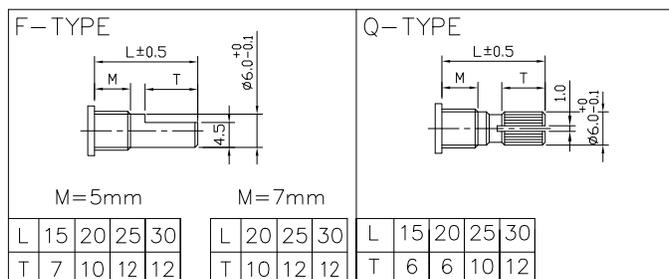
Environmental

Rotational life	30,000 cycles
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Ordering Information ²



Shaft Types



² Contact our customer service for custom designs and features.

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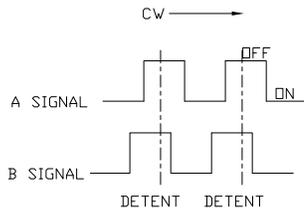
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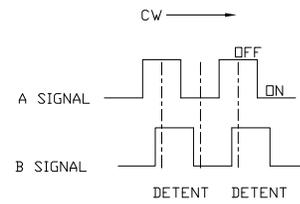
Model EN11



Circuit Diagram



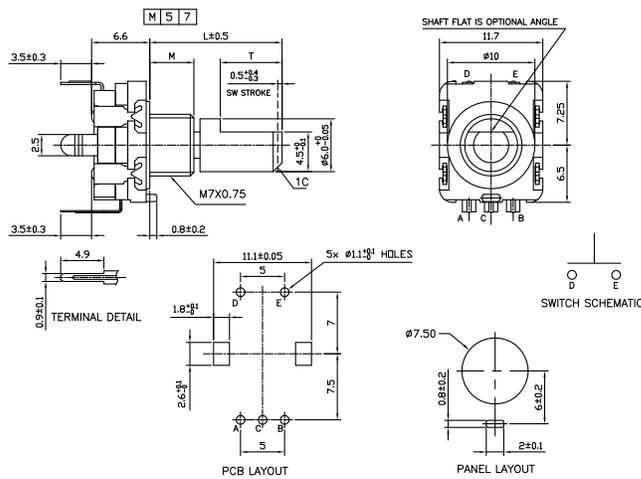
For 20 PPR (B leads A)



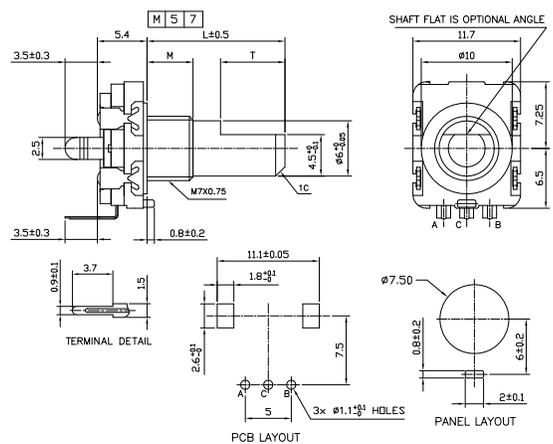
For 15 PPR (A leads B)

Outline Drawing

MODEL EN11-HSM
(Top Adjust, with Switch, Threaded Bushing)



MODEL EN11-HNM
(Top Adjust, without Switch, Threaded Bushing)



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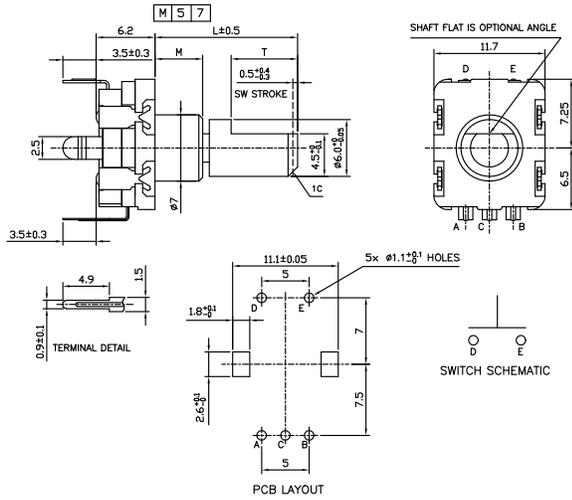
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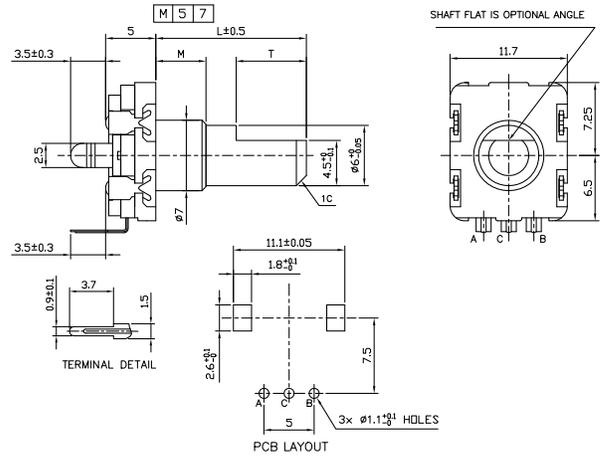
Model EN11



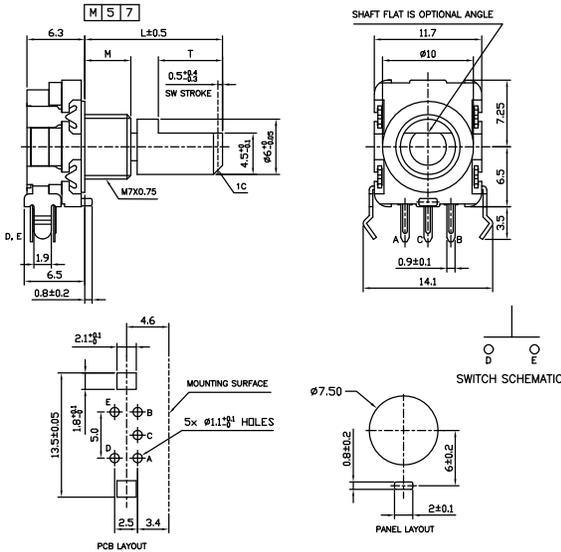
MODEL EN11-HSB
(Top Adjust, with Switch, Plain Bushing)



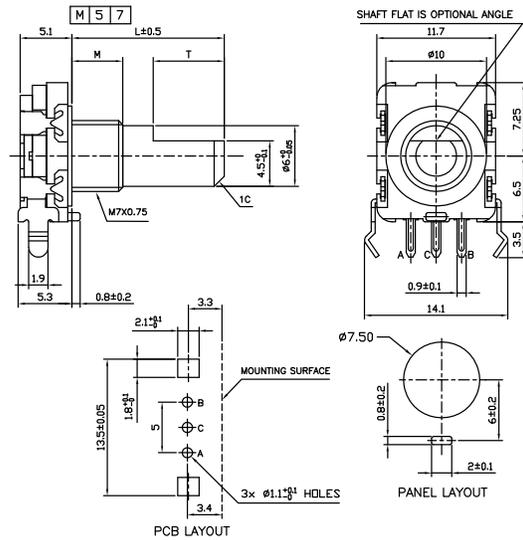
MODEL EN11-HNB
(Top Adjust, without Switch, Plain Bushing)



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



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



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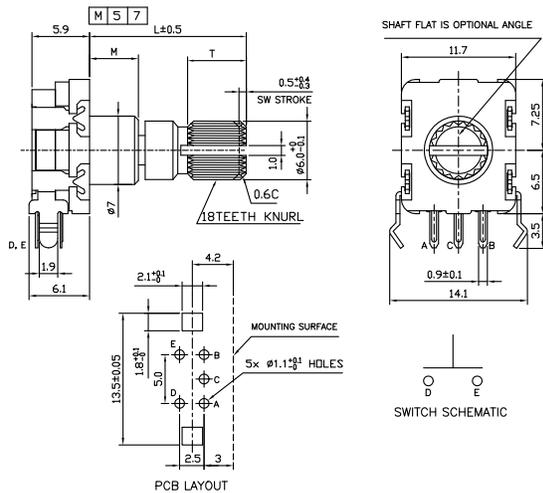
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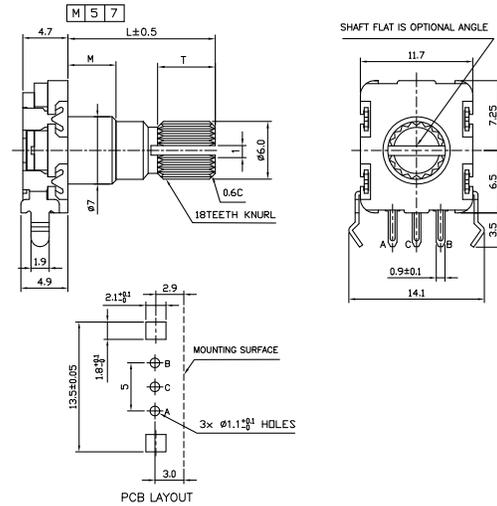
Model EN11



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



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



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