

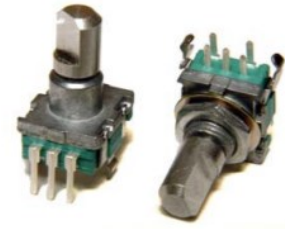
Rotary Encoder

Model EN11 Series



Features:

- 11 mm 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

Electrical

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

Notes:

1. Specifications subject to change without notice

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

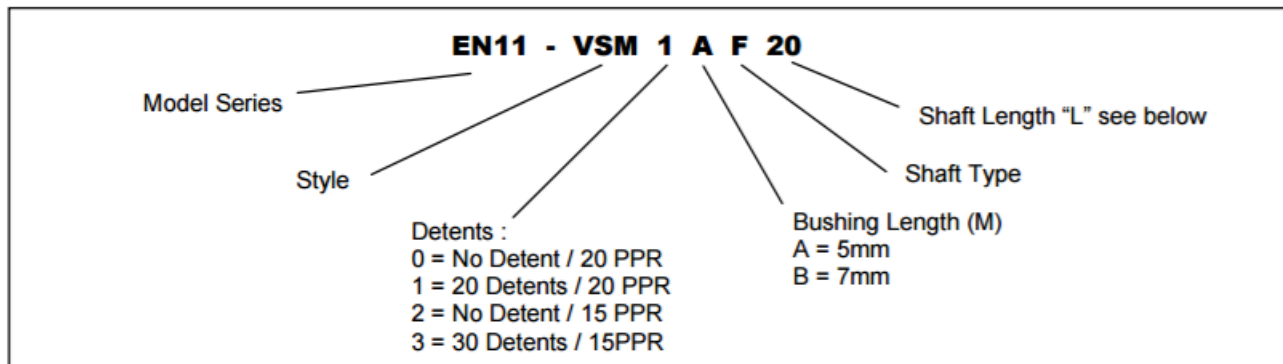
Mechanical

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

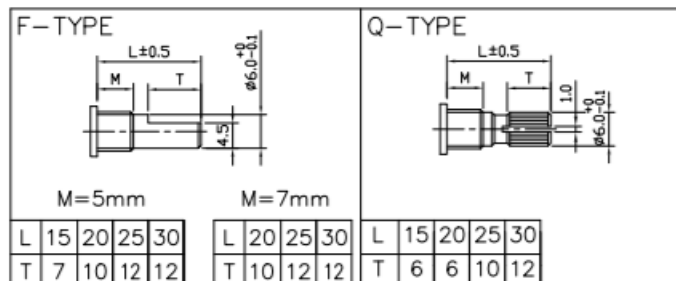
Environmental

Operating temperature range	-10°C to +70°C
Rotational life	30,000 cycles

Ordering Information



Shaft Types



Notes:

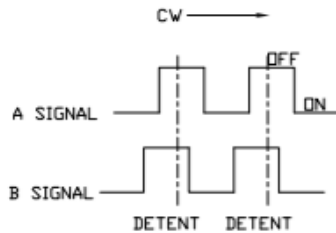
- 1. Contact our customer service for custom designs and features.**

Rotary Encoder

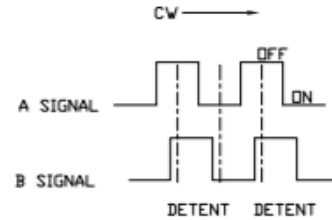
Model EN11 Series



Circuit Diagram



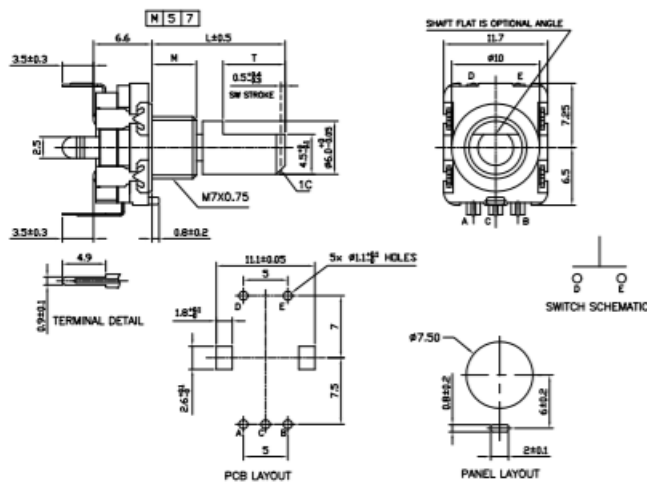
For 20 PPR (B leads A)



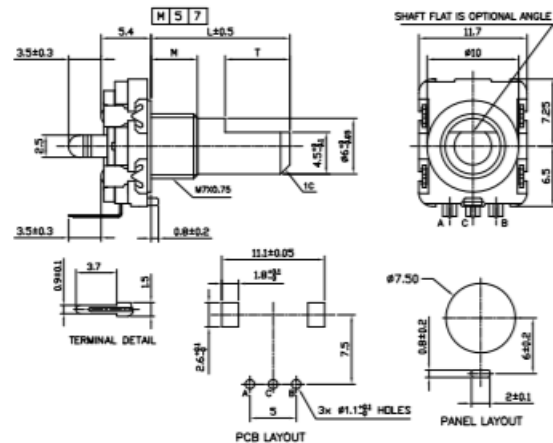
For 15 PPR (A leads B)

Outline Drawing

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



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



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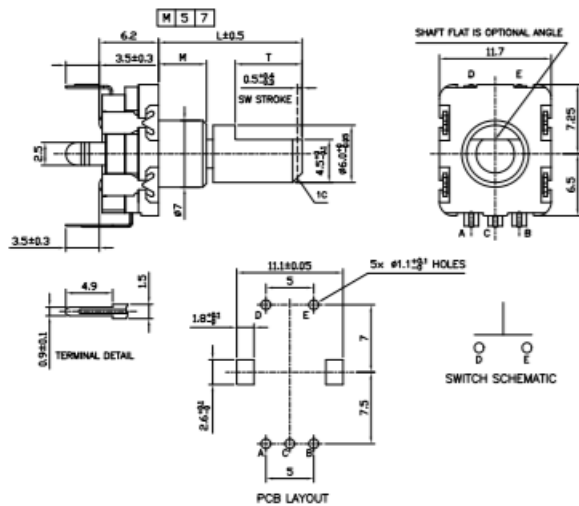
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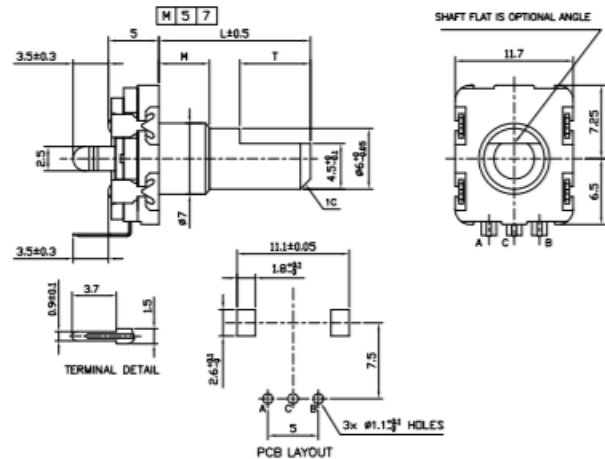
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Outline Drawings Cont.

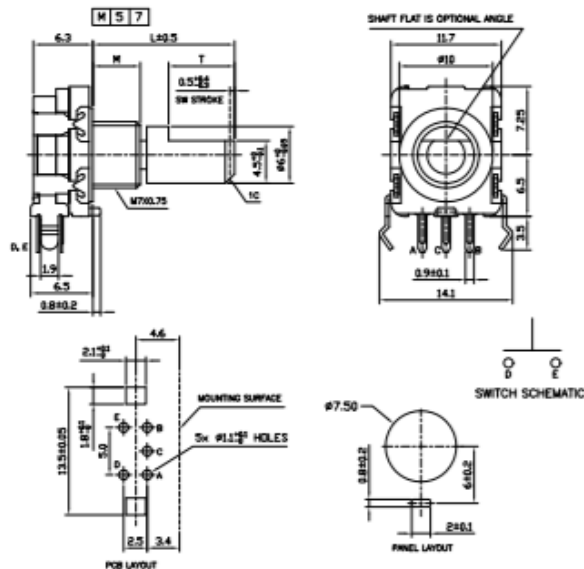
MODEL EN11-HSB
(Top Adjust, with Switch, Plain Bushing)



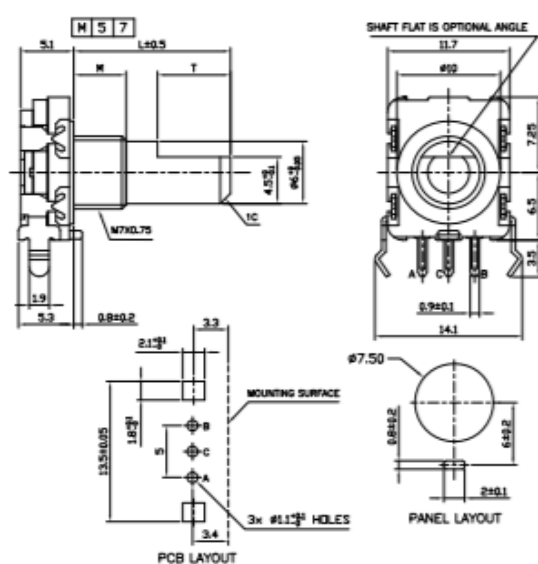
MODEL EN11-HNB
(Top Adjust, without Switch, Plain Bushing)



MODEL EN11-VSM
(Side Adjust, with Switch, Threaded Bushing)



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



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