EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

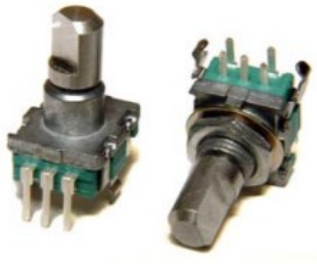
Rotary Encoder

Model EN11 Series

Features:

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

RoHS 2 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, 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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Environmental

Rotational Life	30,000 cycles

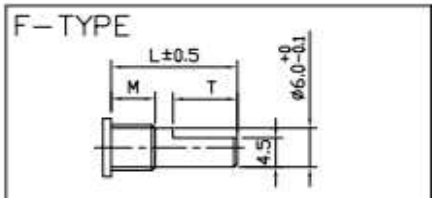
Ordering

EN11 - VSM 1 A F 20

- Model Series
- Style
- Detents :
  0 = No Detent / 20 PPR
  1 = 20 Detents / 20 PPR
  2 = No Detent / 15 PPR
  3 = 30 Detents / 15PPR
- Bushing Length (M)
  A = 5mm
  B = 7mm
- Shaft Type
- Shaft Length "L" see below

Shaft Types

F–TYPE



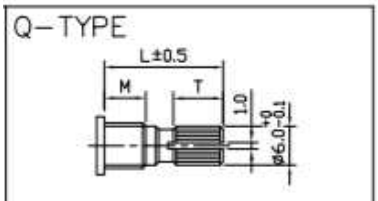
M=5mm

L	15	20	25	30
T	7	10	12	12

M=7mm

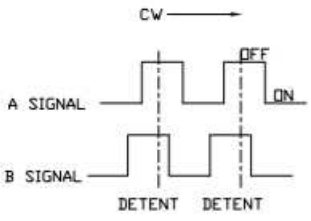
L	15	20	25	30
T	5	10	12	12

Q–TYPE

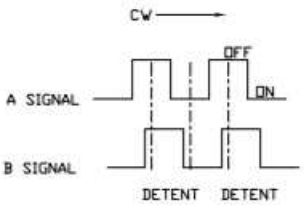


L	15	20	25	30
T	6	6	10	12

Circuit Diagram



For 20 PPR (B leads A)



For 15 PPR (A leads B)

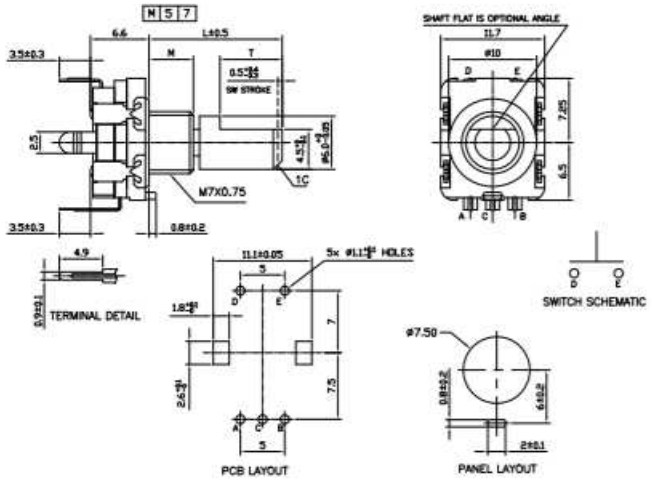
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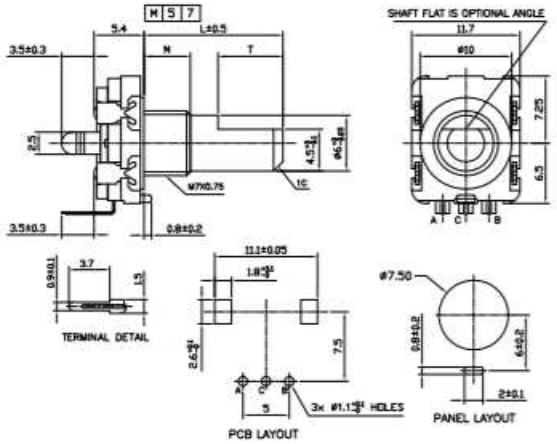
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Outline Drawings

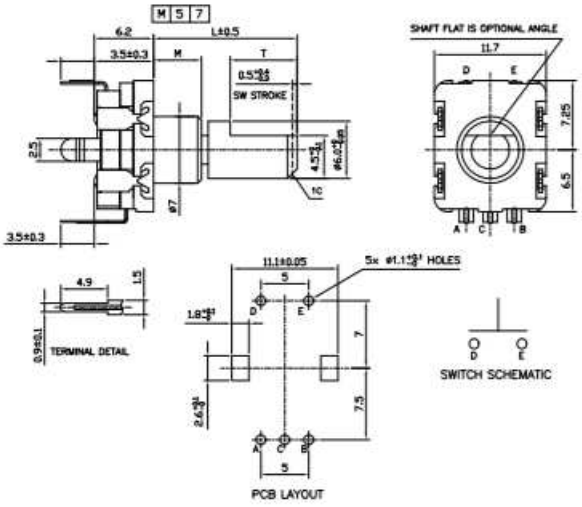
MODEL EN11-HSM
(Top Adjust, with Switch, Threaded Bushing)



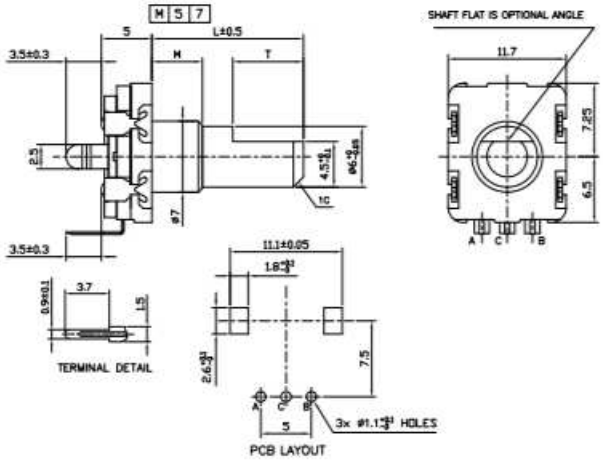
MODEL EN11-HNM
(Top Adjust, without Switch, Threaded Bushing)



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



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



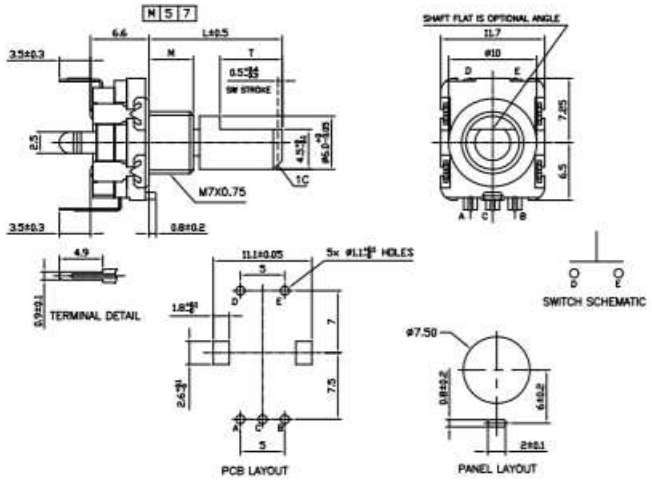
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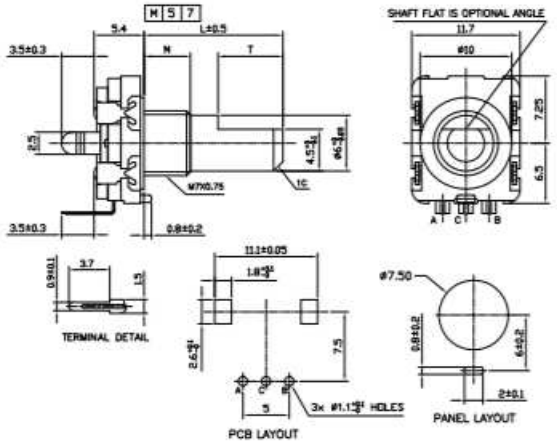
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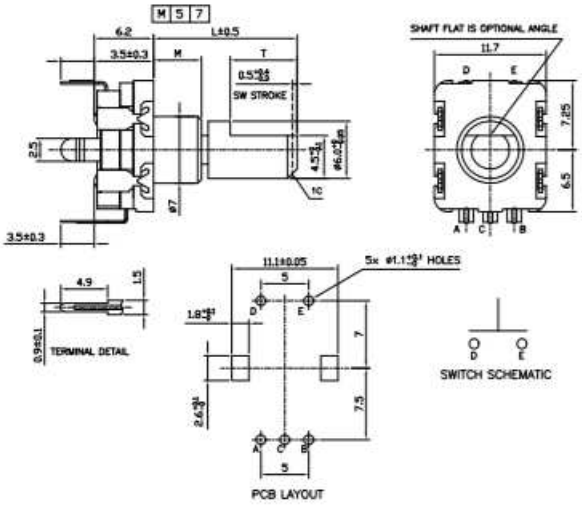
MODEL EN11-HSM
(Top Adjust, with Switch, Threaded Bushing)



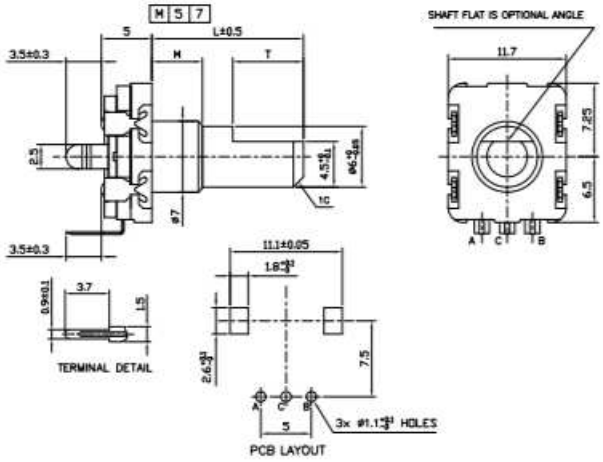
MODEL EN11-HNM
(Top Adjust, without Switch, Threaded Bushing)



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



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



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