## **Model EN11 Series**

# **Electronics**

#### Features:

- 11 mm rotary encoder
- 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
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

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## **Model EN11 Series**



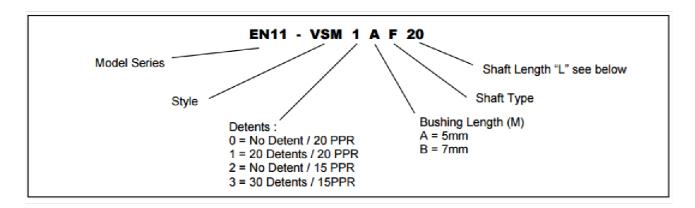
#### **Mechanical**

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**



#### Notes:

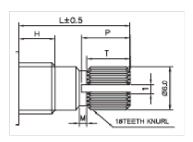
1. Contact our customer service for custom designs and features.

## **Model EN11 Series**



## **Shaft Types**

**Q** Type



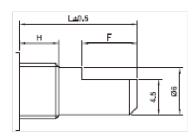
#### H = 5mm

L	15	20	25	30
Р	7	7	11	14
Т	6	6	10	12
М	2	2	2	4

H = 7mm

L	15	20	25	30
Р	7	7	11	14
Т	6	6	10	12
М	1	1	2	4

## F Type



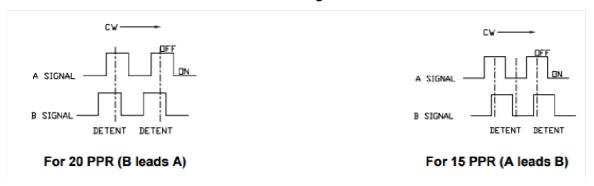
#### H = 5mm

L	15	20	25	30
F	7	10	12	12

#### **H** = 7mm

L	15	20	25	30
F	5	10	12	12

## **Circuit Diagram**

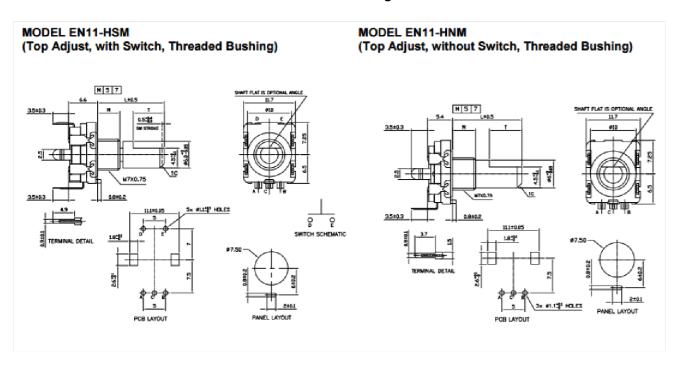


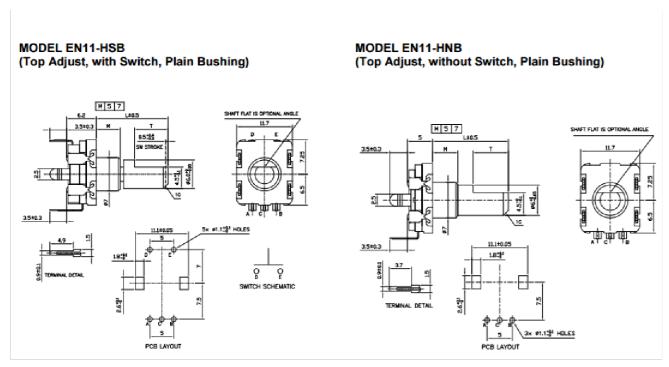
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#### **Model EN11 Series**



## **Outline Drawings**





## **Model EN11 Series**



#### **Outline Drawings**

