

# Rotary Encoder

## Model EN12 Series



### Features:

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



### Model Styles Available

Top Adjust, with Switch	EN12-HS
Top Adjust, without Switch	EN12-HN
Side Adjust, with Switch	EN12-VS
Side Adjust, without Switch	EN12-VN

### Electrical

Pulses ( Per Revolution )	12 & 24
Closed Circuit Resistance, Ohms	3 Ohms, max.
Contact Rating	1mA/ 5Vdc
Operating Current, Maximum	1mA
Dielectric Strength	300Vac/ 1mA, 1 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, 12, 24
Rotational Torque of Detent, Maximum	1.4 oz-in
Switch Operating Force	550 gf
Switch Travel	0.5mm

#### 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.

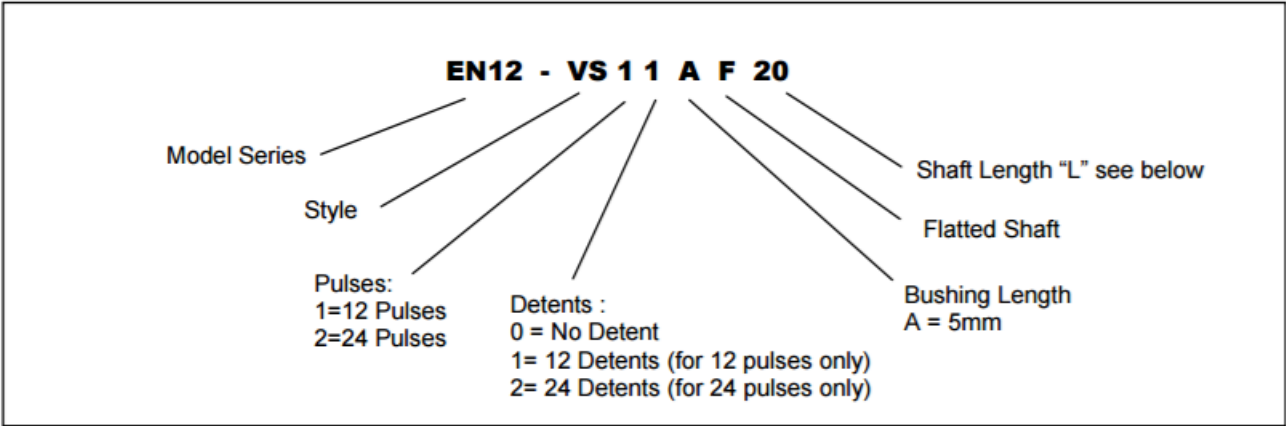
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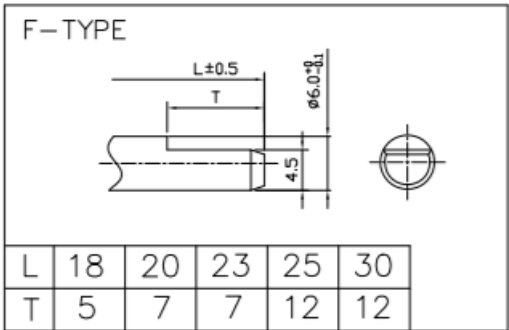
Environmental

Rotational Life	30,000 cycles
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Ordering

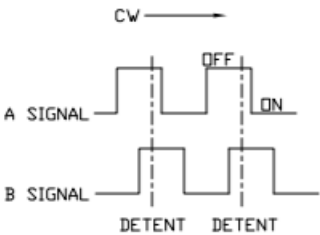


Shaft Length Options



18 Length = 17.5mm  
23 Length = 22.5mm

Circuit Diagram



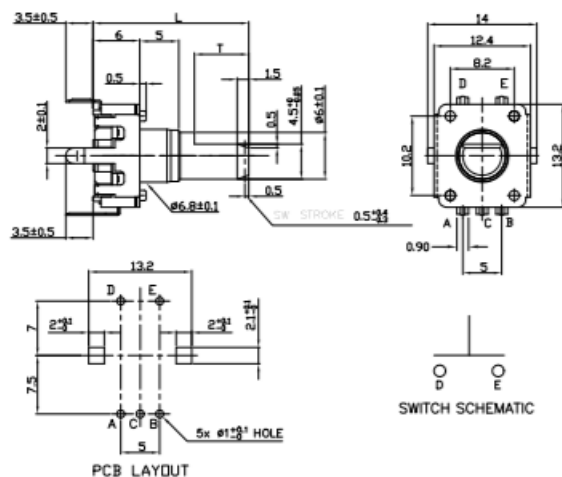
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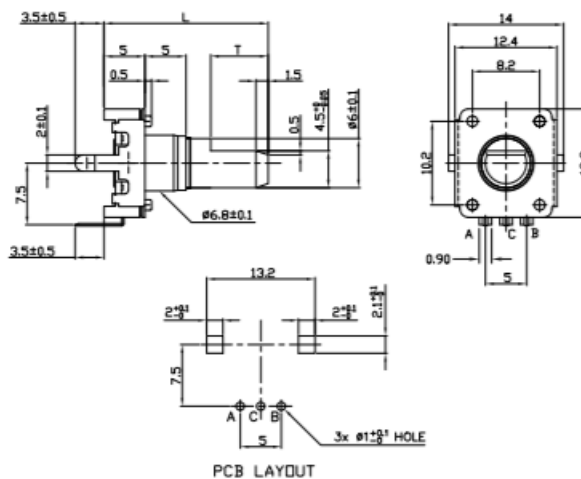


### Outline Drawings

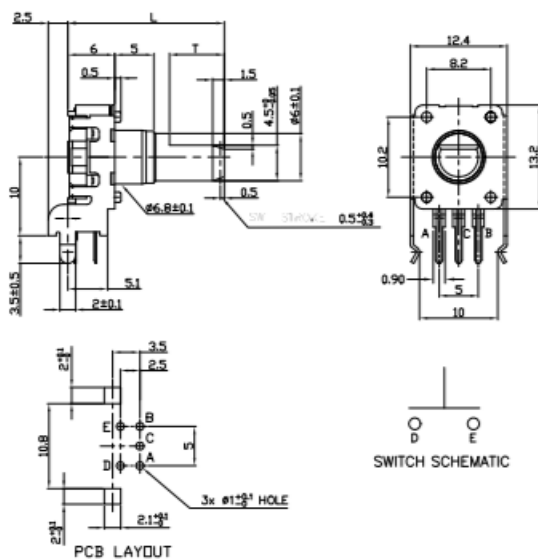
**EN12-HS (Top Adjust, with Switch)**



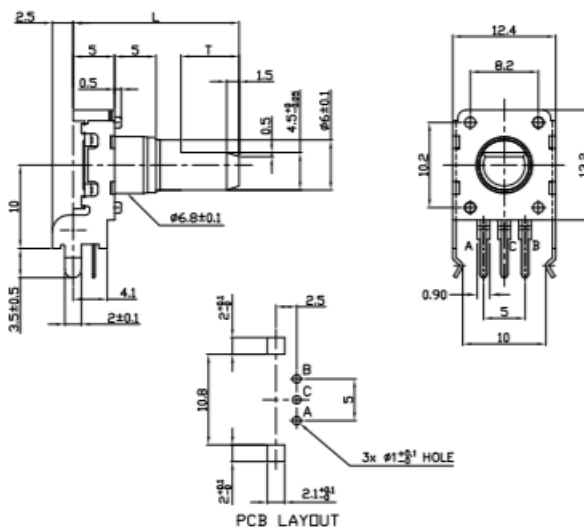
**EN12-HN (Top Adjust, without Switch)**



**EN12-VS (Side Adjust, with Switch)**



**EN12-VN (Side Adjust, without Switch)**



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