Model EN11 11mm Rotary Encoder 2 Bits Gray Code Incremental/Contacting Type Metal Bushing/Shaft Push-on Switch Option RoHS Compliant



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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 ¹	
Pulses (Per Revolution)	20
Encoder Closed Circuit Resistance	3 Ohms, max.

Pulses (Per Revolution)	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

BI Technologies Corporation

4200 Bonita Place, Fullerton, CA 92835 USA

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¹ Specifications subject to change without notice.

Model EN11

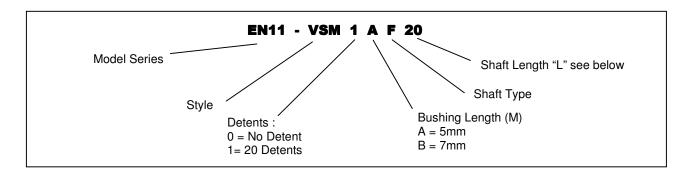
MECHANICAL

Total Mechanical Travel	Continuous
Detents (per Revolution)	0 and 20
Rotational Torque of Detent, Maximum	2.5 oz-in
Switch Operating Force	550 gf
Switch Travel	0.5mm

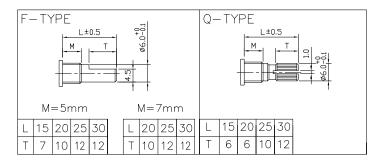
ENVIRONMENTAL

Operating Temperature Range	-30°C to +85°C
Rotational Life	30,000 cycles

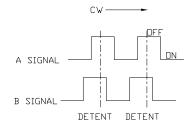
ORDERING INFORMATION²



Shaft Types



CIRCUIT DIAGRAM



² Contact our customer service for custom designs and features.

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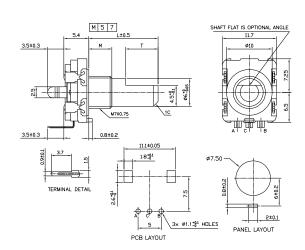
Model EN11

OUTLINE DRAWING

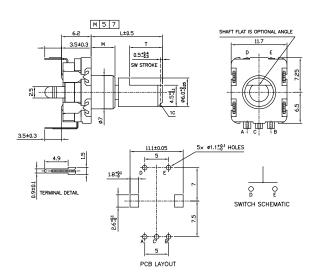
MODEL EN11-HSM (Top Adjust, with Switch, Threaded Bushing)

35±0.3 M 5 7 SHAFT FLAT IS OPTIONAL ANGLE 910 D 11.7 910 N 5 7 910 D 1 910 SWITCH SCHEMATIC 97.50 FERMINAL DETAIL 97.50 POB LAYOUT PANEL LAYOUT

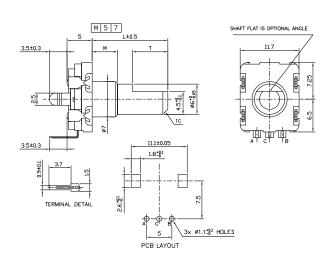
MODEL EN11-HNM (Top Adjust, without Switch, Threaded Bushing)



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



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

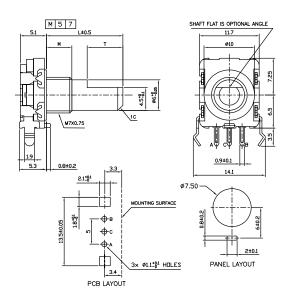


Model EN11

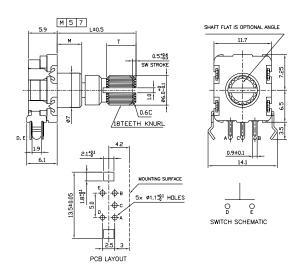
MODEL EN11-VSM (Side Adjust, with Switch, Threaded Bushing)

SHAFT FLAT IS OFFIONAL ANGLE 11.7 6.3 M 0.5123 SW STROKE 97.50 0.840.2 14.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1 0.920.1

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



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



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

