#### **Model EN11**

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



MODEL STYLES	
MODEL STYLES	
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 <sup>1</sup>	
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, 15 and 20
Rotational Torque of Detent, Maximum	2.5 oz-in
Switch Operating Force	550 gf
Switch Travel	0.5mm

<sup>&</sup>lt;sup>1</sup> Specifications subject to change without notice.

**BI Technologies Corporation** 

4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: www.bitechnologies.com



July 20, 2010 page 1 of 4

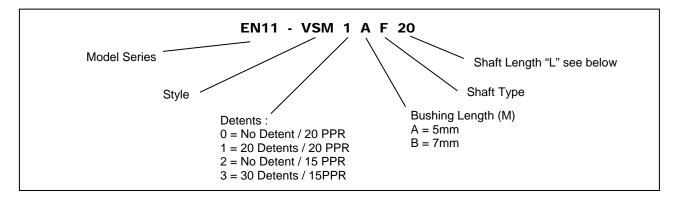
#### **Model EN11**

#### **ENVIRONMENTAL**

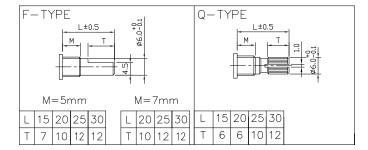
Operating Temperature Range -30°C to +85°C

Rotational Life 30,000 cycles

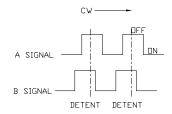
#### ORDERING INFORMATION<sup>2</sup>



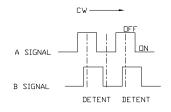
#### **Shaft Types**



#### **CIRCUIT DIAGRAM**



For 20 PPR (B leads A)



For 15 PPR (A leads B)

**BI Technologies Corporation** 

4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: www.bitechnologies.com

July 20, 2010 page 2 of 4



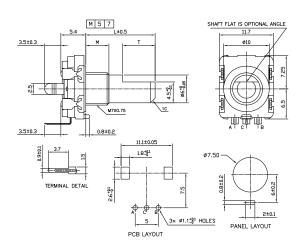
Contact our customer service for custom designs and features.

#### **OUTLINE DRAWING**

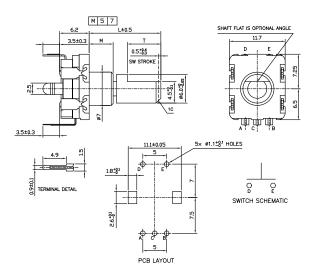
# MODEL EN11-HSM (Top Adjust, with Switch, Threaded Bushing)

# 35±0.3 M 5 7 SHAFT FLAT IS OPTIONAL ANGLE 11.17 4.0 10.12 4.9 11.1±0.05 5x 61.1:34 HDLES 0

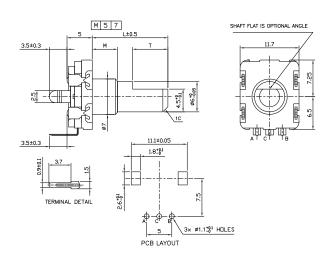
# MODEL EN11-HNM (Top Adjust, without Switch, Threaded Bushing)



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



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



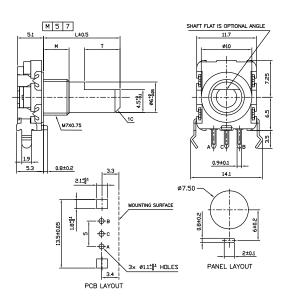
July 20, 2010 page 3 of 4

#### **Model EN11**

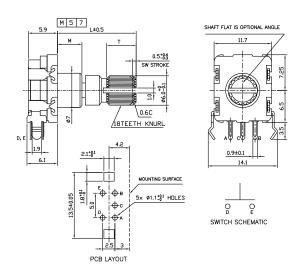
# MODEL EN11-VSM (Side Adjust, with Switch, Threaded Bushing)

# SHAFT FLAT IS OPTIONAL ANGLE 11.7

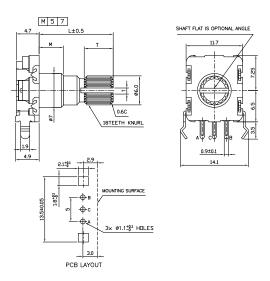
### MODEL EN11-VNM (Side Adjust, without Switch, Threaded Bushing)



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



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



4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: www.bitechnologies.com

electronics

Bl technologies

July 20, 2010 page 4 of 4