## **EN18AB Series**

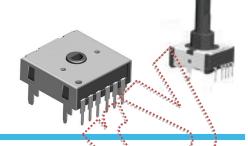
# TT Electronics PRO AUDIO



#### Features:

- Absolute type
- Plastic Shaft
- Horizontal mount
- IP51 and IP67 rated versions





#### **Description:**

18 mm encoder is absolute type encoder, therefore output is maintained in power loss. It is a good fit for various electronic applications such as frequency modulation, volume adjustment, and function switching.

#### **Applications:**

- Home Appliances
- Audio Equipment
- Temperature Control

# **Electrical Characteristics**

#### T<sub>A</sub> = 25°C unless otherwise noted

Output	Absolute
Positions (Per Revolution)	24
Power Rating	12 Vdc / 4 mA
Insulation Resistance	$10$ M $\Omega$ 1 Minute at 100 Vdc Max.
Dielectric Strength	1 Minute at 50 Vac
Contact Resistance	100 mΩ maximum

# **Encoder Characteristics**

#### T<sub>A</sub> = 25°C unless otherwise noted

Rotation	360° continuous
Rotational Torque	100-300 gf.cm
Detents per Rotation	24
Rotational Life	30,000 Cycles Min.

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## **Environmental Characteristics**

#### TA = 25°C unless otherwise noted

Operating Temperature	-20°€ to +85°C	
IP Rating	IP51 (EN18ABHH), IP 67 (EN18ABHB)	
Soldering Condition	Wave/Reflow Soldering 260°C maximum for 1:3 seconds	
	Hand Soldering 350°C maximum for 3 seconds	
RoHS	Please refer to TT Electronics website	
REACH	Please refer to TT Electronics website	

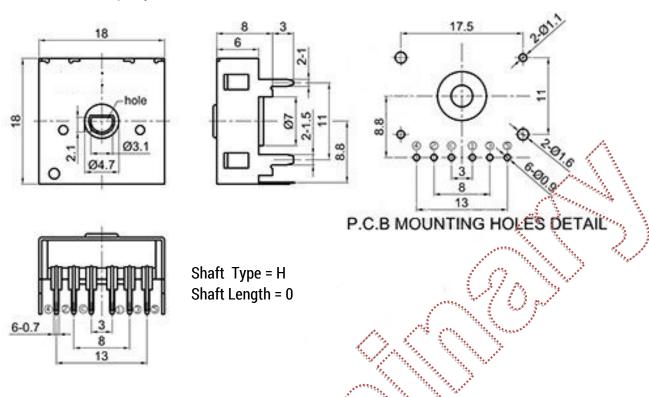
# **Ordering** EN18AB H 0 **Part Family Style** HH = Top Adjust, Hollow Shaft HB = Top Adjust, Plain Bushing **Positions** 1 = 16 positions (HB style only) 2 = 24 positions (HH style only) **Detents** 1 = 16 (for 16 positions only 2 = 24 (for 24 positions only). Bushing Length A = 5 mm (plain bushing only) H = No Bushing Start Position - 0 Shaft Type (see Outline Drawings) **Shaft Length** (see Outline Drawings) -

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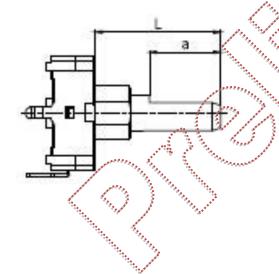


# **Outline Drawings**

# EN18AB-HH - Top Adjust, Hollow Shaft



EN18AB-HB - Top Adjust, Plain Bushing



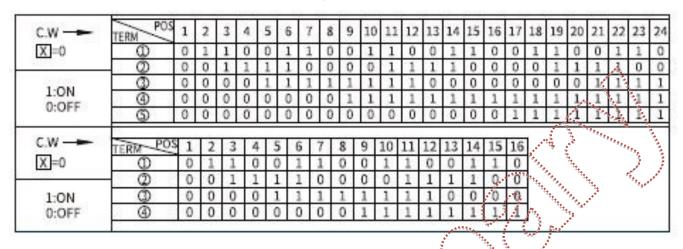
Shaft Type = F
Shaft Length = see Chart

Code	26	29	30
L	26.8	28.7	29.5
a	12.7	15.7	15.7

# **EN18AB Series**



# **Output Signal Format**



# **Packaging**

Standard Packaging	Plastic Trays
Included Hardware	None

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