# **18 mm Absolute Encoder**

# **EN18AB Series**

#### Features:

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







#### Description:

18 mm encoder is an absolute type encoder, therefore output is maintained after 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**

#### $T_A = 25^{\circ}C$ unless otherwise noted

<i>N</i>	
Output	Absolute
Positions (Per Revolution)	16 or 24
Power Rating	12 Vdc / 4 mA
Insulation Resistance	10MΩ 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
	100-300 gf.cm (EN18ABHH)
Rotational Torque	300-700 gf.cm (EN18ABHB)
Detents per Rotation	16 or 24
Rotational Life	30,000 Cycles Min.

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.

# 18 mm Absolute Encoder

# **EN18AB Series**

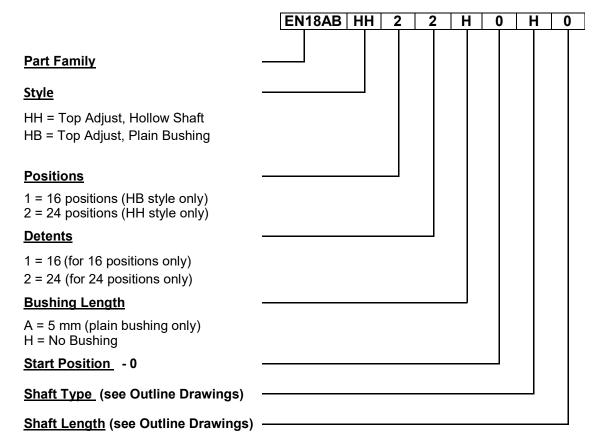


# **Environmental Characteristics**

#### TA = 25°C unless otherwise noted

Operating Temperature	-20°C 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



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.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com

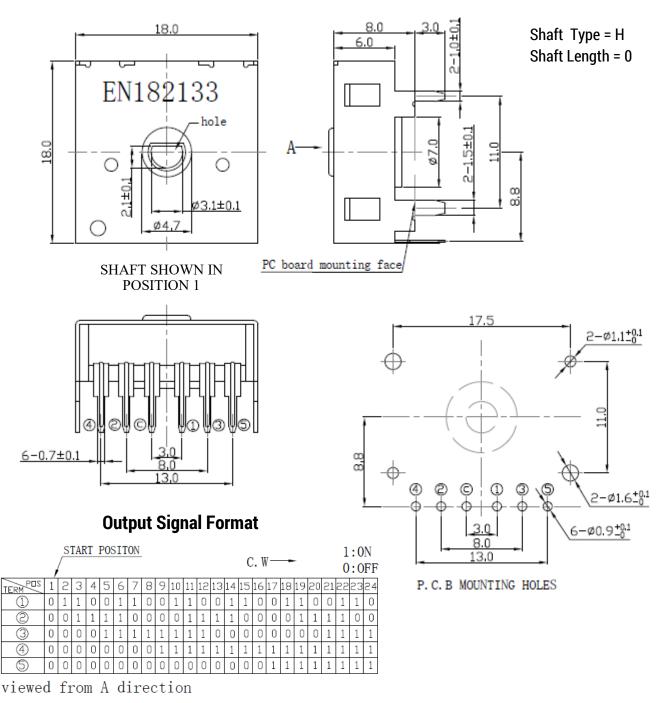
Rev A 02/2022 Page 2



**EN18AB Series** 

### **Outline Drawings**

### EN18ABHH22H0H0 - Top Adjust, Hollow Shaft



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.

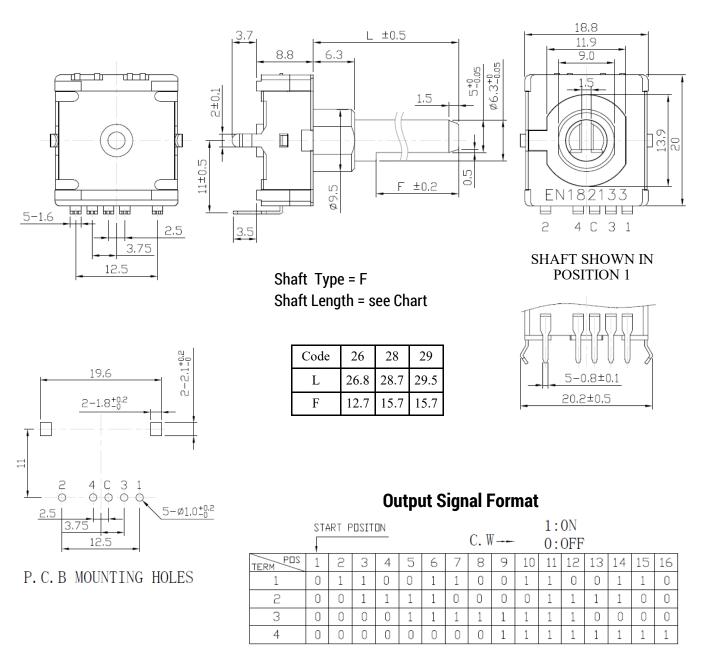
TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com



# **EN18AB Series**

## **Outline Drawings**

### EN18ABHB11A0Fxx - Top Adjust, Plain Bushing



General Note

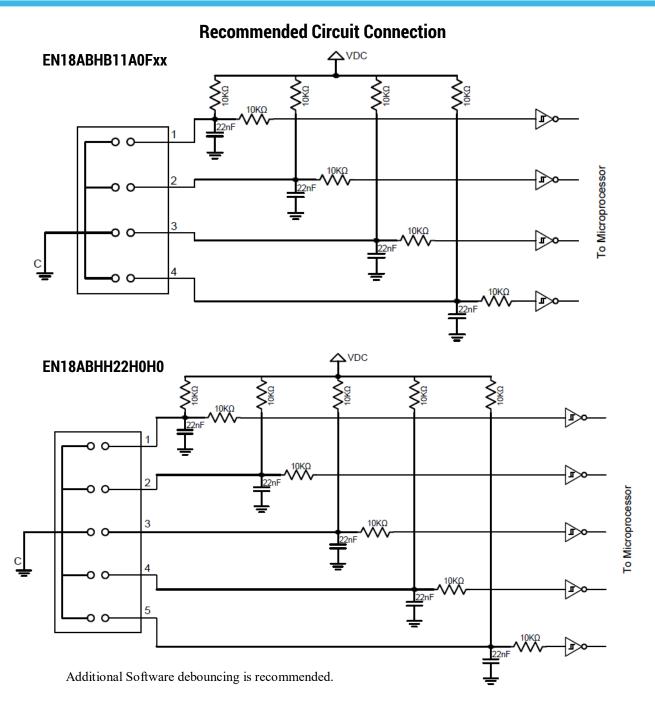
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: +1 (714) 447-2345 www.ttelectronics.com

# **18 mm Absolute Encoder**

# **EN18AB Series**





## Packaging

Standard Packaging	Plastic Trays
Included Hardware	None

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.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com