

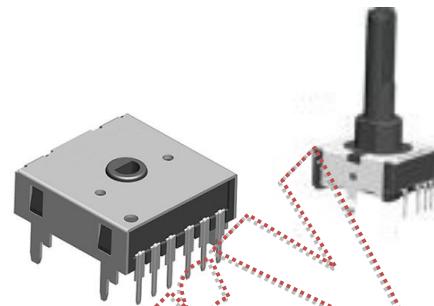
18 mm Absolute Encoder

EN18AB Series



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

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

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

Encoder Characteristics

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

Rotation	360° continuous
Rotational Torque	100-300 gf.cm
Detents per Rotation	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.

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Environmental Characteristics

TA = 25°C unless otherwise noted

Operating Temperature	-20°C to +85°C
IP Rating	IP51 (EN18ABHH), IP67 (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 | HH | 2 | 2 | H | 0 | 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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TT Electronics | BI Technologies
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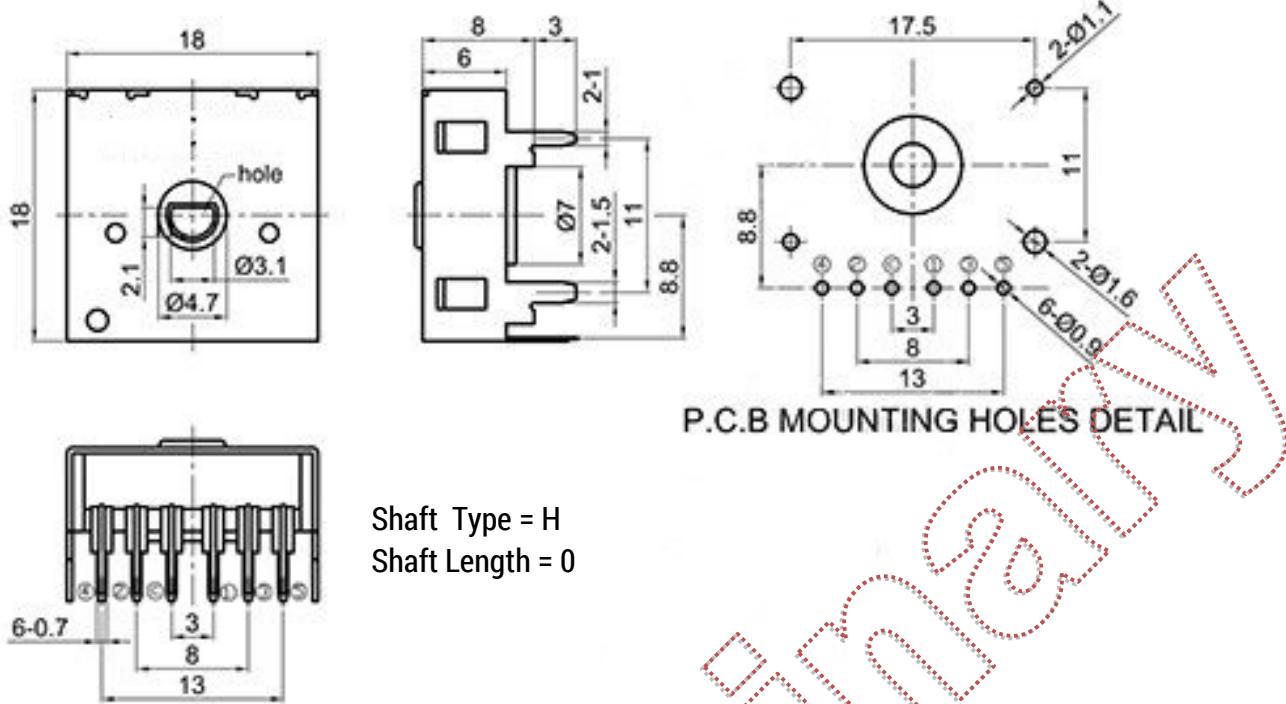
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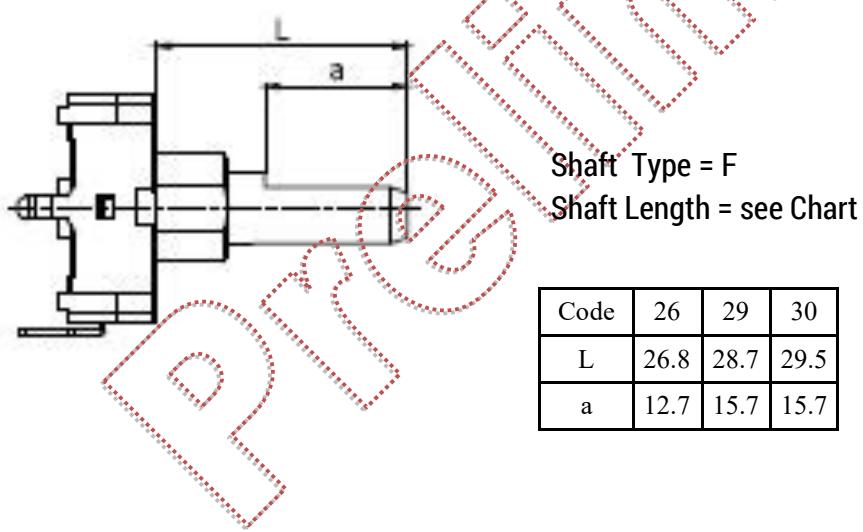


Outline Drawings

EN18AB-HH - Top Adjust, Hollow Shaft



EN18AB-HB - Top Adjust, Plain Bushing



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

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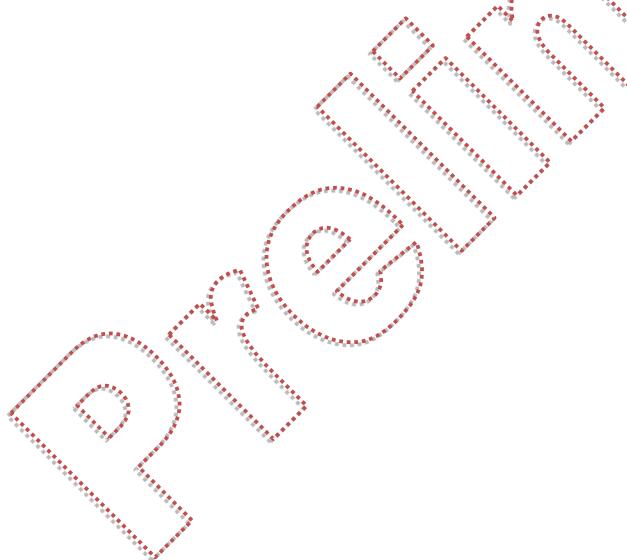


Output Signal Format

C.W →		TERM	POS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
X=0		①		0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0
1:ON 0:OFF		②		0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	0	
③		③		0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1
④		④		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
⑤		⑤		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
C.W →		TERM	POS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
X=0		①		0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0
1:ON 0:OFF		②		0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	0	
③		③		0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
④		④		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Packaging

Standard Packaging Included Hardware	Plastic Trays None
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