EN16AB Series

TT Electronics PRO AUDIO





Features: Absolut

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



Description:

16 mm encoder is an 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°C unless otherwise noted

Output	Absolute
Positions (Per Revolution)	12, 16
Power Rating	12 Vdc / 4 mA
Insulation Resistance	10MΩ 1 Minute at 50 Vdc Max.
Dielectric Strength	1 Minute at 50 Vac
Contact Resistance	100 mΩ maximum

Encoder Characteristics

T_A = 25°C unless otherwise noted

Rotation	360° continuous
Rotational Torque	30-200 gf.cm
Detents per Rotation	12, 16
Rotational Life	30,000 Cycles Min.

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Environmental Characteristics

TA = 25°C unless otherwise noted

Operating Temperature	10°C to +70°C
IP Rating	IP 51
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

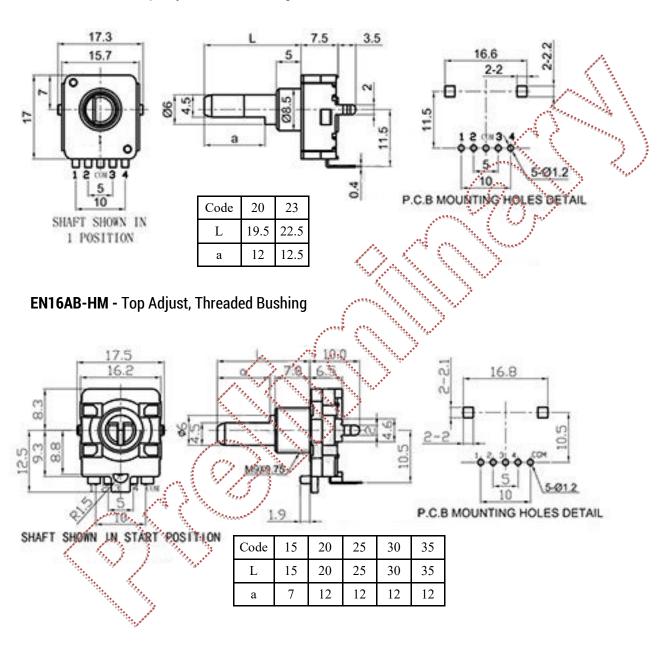
Ordering EN16AB HB 23 **Part Family Style** HB = Top Adjust, Plain Bushing HM = Top Adjust, Threaded Bushing VM = Side Adjust, Threaded Bushing **Positions** 1 = 12 positions (HB style only) 2 = 16 positions (HM & VM style only **Detents** 1 = 12 (for 12 positions only 2 = 16 (for 16 positions only) Bushing Length A = 5 mm (plain bushing only) B = 7 mm (threaded bushing only) Start Position (see Output Signal Format) None = 12 pos. 0 = 16 pos. option 01 = 16 pos. option 1 2 = 16 pos. option 2 Shaft Type - F **Shaft Length** (see Outline Drawings)

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Outline Drawings

EN16AB-HB - Top Adjust, Plain Bushing

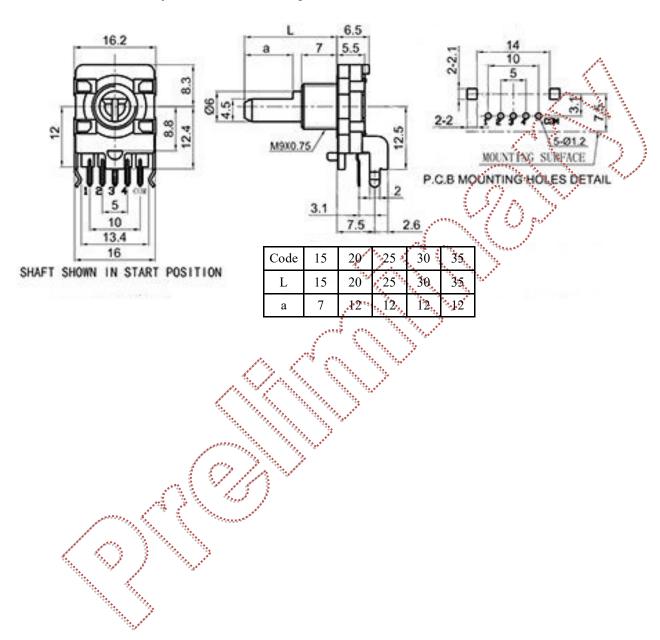


EN16AB Series



Outline Drawings

EN16AB-VM - Side Adjust, Threaded Bushing



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Output Signal Format

C.W	TERM POS	1	2	3	4	5	6	7	8	9	10	11	12					
****** E	0	0	1	1	1	1	0	0	0	0	0	0	0					
	0	1	1	0	0	1	1	1	1	0	0	0	0					1/2
1:ON	0	0	0	0	1	1	1	1	0	0	1	1	0					
0:OFF	0	0	0	0	0	0	0	1	1	1	1	0	0					
c.w —	- POS	1	2	-		-		7		-	10	122	Lin	12	1.6	15	1.0	
X=0	TERM POS		2	3	9	5	6	1	8	9	10	11	12	13	14	15		
A -0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	
	99	0	0	1	0	1	1	0	0	0	0	1	1	1	A	0	0	
1:ON	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	.0	
0:OFF	(9)	v	U.	·W	U	U	U.	V.	U		1	1	. 4					3, , ,
c.w —	- 2005	1	2	-			e	7			10	1	la m	12	7.4			1
X=1	TERM POS	_	6	3	4	5	6	1	8	9	-	11	4.6		14		Lia	1
N-+	0	0	0	0	0	0	0	0	0	14	-	1	1	1	1	1	0	4
	0	0	0	1	1	1	1	0	0	0	0	1	1	1.	1	0	0	1
1:ON	0	0	1	1	0	0	1	1	0	.0	٠.,		-	0		1	0	1
0:OFF	0	v	4.	-	U	U	1	1	200	-	111	1	1,		1	÷	0.	1
	-	_								-			***					-
C.W -	TERM POS	-	2	3	4	5	6	7	8	9	10	11	12	13	14	15	_	1
X =2	Ф	0	1	0	1	0	1		1	0	1	0	1	0	1	0	1	1
1000000	0	0	0	1	74,	0	0	1	1	0	0	1	1	0	0	1	1	1
1:ON	0	0	0	0.	0.	.1	1	1		0	0	0	0	1	1	1	1	1
0:OFF	(0)	0	0	0	ŋ	0	Ů.	.0	0		1	1	1	1	1	1	1	18

Packaging

Standard Packaging	Plastic Trays
Included Hardware	Nut & Washer—Threaded Bushing Only

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

EN16ABHB11AF23 EN16ABVM22B0F20