

Features:

- Compact design •
- 2 bits gray code •
- Incremental/contacting type •
- **Plastic Hollow Shaft** •
- Vertical and Horizontal mount versions





В

Description:

10 mm encoder is a small encoder which is a good fit for various small electronic applications such as frequency modulation, volume adjustment, and function switching.



Computer Mouse •

- Earphones •
- Radios •

Electrical Characteristics

T _A = 25°C unless otherwise noted	
Output	2 Bits Gray Code
Pulses (Per Revolution)	6, 12
Phase Difference	0.08T ± 0.1T
Power Rating	5 Vdc / 10 mA
Insulation Resistance	10MΩ 1 Minute at 50 Vdc Max.
Dielectric Strength	1 Minute at 50 Vac
Chattering	3 ms maximum
Bounce	2 ms maximum

Encoder Characteristics

T _A = 25°C unless otherwise noted	
Rotation	360° continuous
Rotational Torque	15-50 gf.cm
Detents per Rotation	12, 24
Rotational Life	100,000 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.

EN10 Series



Environmental Characteristics

TA = 25°C unless otherwise noted

Operating Temperature	-20°C to +80°C
IP Rating	IP 40
Soldering Condition	Wave 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

	EN	10	HT	1	2	12	Ν	5	HH2
Part Family									
<u>Style</u>									
HS = Top Adjust, Surface Mount HT = Top Adjust, Double Tab Bracket VT = Side Adjust, Double Tab Bracket VTS = Side Adjust, Single Tab Bracket VTN = Side Adjust, No Bracket									
Pulses/360°									
06 = 6 pulses 12 = 12 pulses									
Detent/Rotation									
12 = 12/360° (6 or 12 pulses) 24 = 24/360° (12 pulses only)									
Switch Option									
N = No Switch									
Standoff Length									
1 = 7 mm 2 = 9 mm 3 = 11 mm 4 = 13 mm 5 = 5.5 mm 6 = 6.4 mm (HT only) 7 = 6.5 mm									
Shaft Style									

HH2 = Hollow Hex Shaft 1.72mm HH3 = Hollow Hex Shaft 1.75mm

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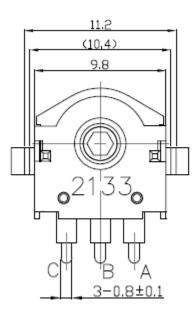
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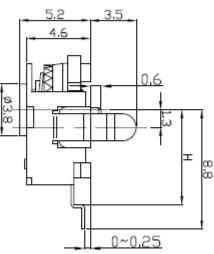
EN10 Series

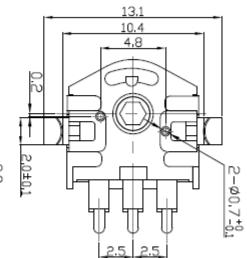


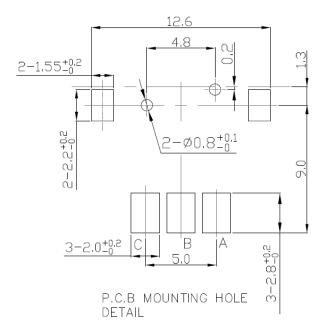
Outline Drawings

EN10HS - Top Adjust, Surface Mount









Standoff Height Code

Х	1
Н	7

Note: Though Surface Mounted in configuration, this part must be hand soldered as it is not rated for reflow soldering process.

General Note

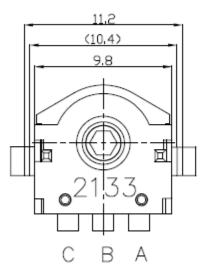
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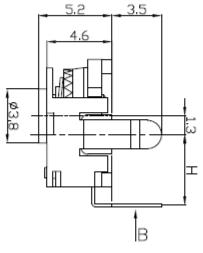
EN10 Series

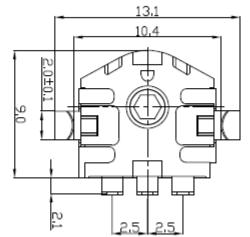


Outline Drawings

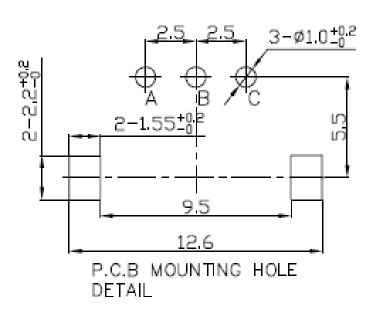
EN10HT - Top Adjust, Double Tab Bracket



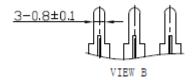




Standoff Height Code



Х	5	6
Н	5.5	6.4



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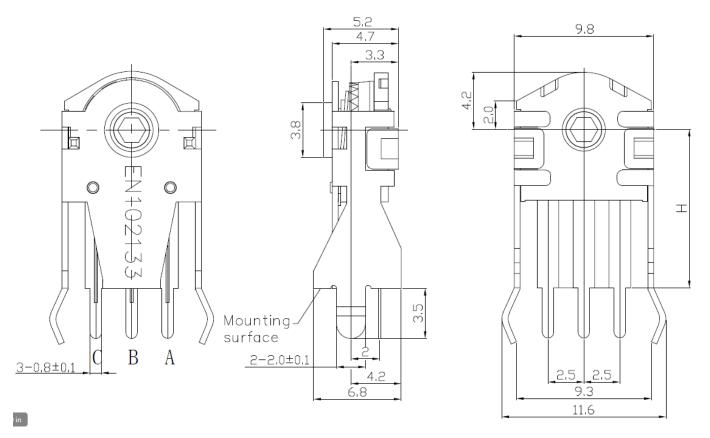
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EN10 Series



Outline Drawings

EN10VT - Side Adjust, Double Tab Bracket



P.C.B MOUNTING HOLE DETAIL

Standoff Height Code

х	1	2	3	4
н	7	9	11	13

General Note

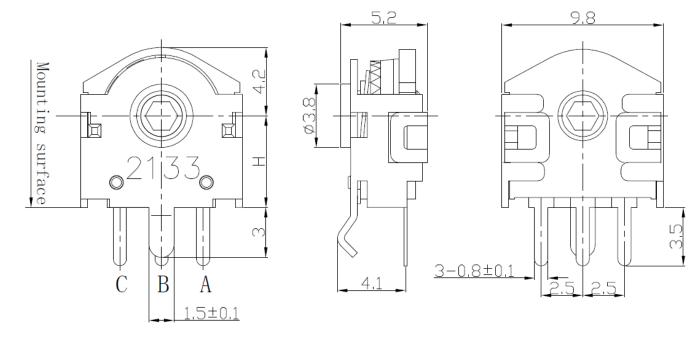
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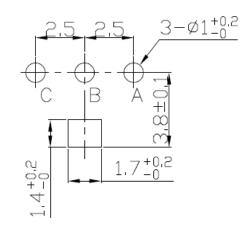
EN10 Series



Outline Drawings

EN10VTS - Side Adjust, Single Tab Bracket





Standoff Height Code

х	5
Н	5.5

P.C.B MOUNTING HOLE DETAIL

General Note

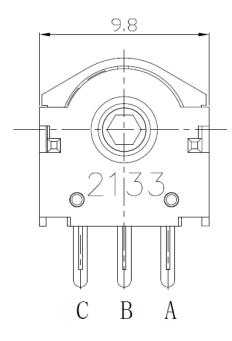
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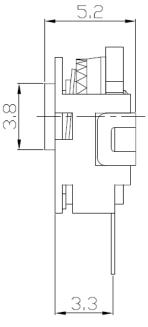
EN10 Series

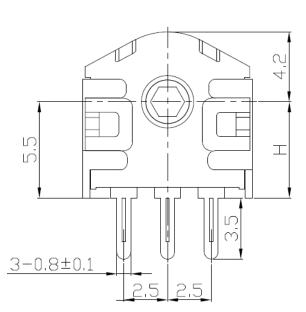


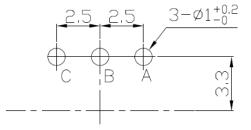
Outline Drawings

EN10VTN - Side Adjust, No Bracket









P.C.B MOUNTING HOLE DETAIL

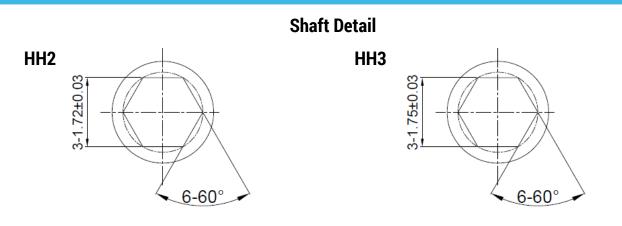
Standoff Height Code

Х	5	7
Н	5.5	6.5

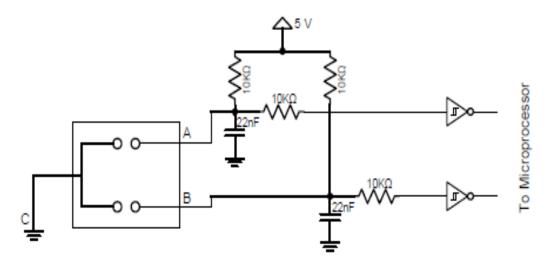
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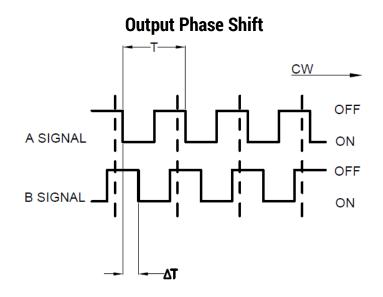


Recommended Filter Schematic



EN10 Series





Packaging

Standard Packaging	Plastic Trays
Included Hardware	None