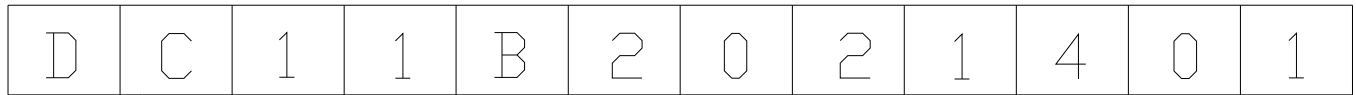


## Products Numbering System



ENCODER

Dimension

09	09mm
10	10mm
11	11mm
12	12mm
15	15mm

Pulse

03	03 Pulses
08	08 Pulses
10	10 Pulses
12	12 Pulses
15	15 Pulses
16	16 Pulses
20	20 Pulses
24	24 Pulses

Switch

0	Without
1	0.5 SW
2	1.5 SW

Detent

1	Without
2	With

District

B	Metal Shaft
F	Mouse Encoder
G	Insulated Shaft With Bushing
H	Hollow Shaft
J	Knob Type
K	Insulated Shaft
L	Slim Type

Model

1	Hollow Horizontal type
2	Horizontal type
3	Hollow Vertical type
4	Vertical type
5	SMD type

## 10mm Size Hollow Shaft Type Encoder



### ◆Features

- Small body as thin as 5.1mm. Height from the shaft center to the product top is only 4mm.
- A long-life type that can operate more than 100,000 cycles..
- Taper is provided inside the through shaft.

### ◆Applications


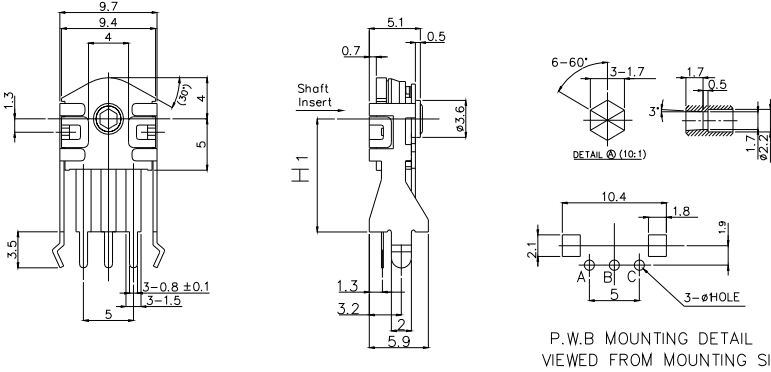

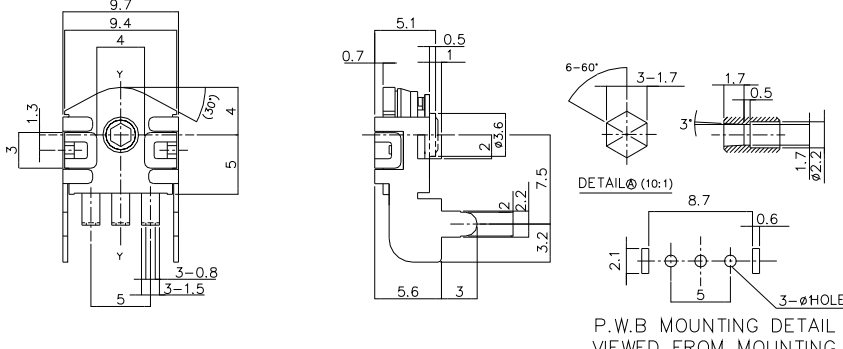
- Various controls for personal computer input device. AV equipment communication equipment etc.
- Keyboard's select control.

### ◆Common Specifications

Pulse	Number of detent	Phase difference (msec)	Chattering (msec)	Sliding noise (msec)	Insulation resistance	Dielectric strength	Detent torque (gf · cm)	Rotational life (cycle)
12	24	4	5	5	50V DC 50MΩ MIN	50V AC 1 min	50±30	10,000

### ◆Dimension

Unit : mm

Model	Dimensions						
<b>DC10F12202</b> horizontal type 	 <table border="1" style="float: right;"> <tr><td>H<sub>1</sub></td></tr> <tr><td>5</td></tr> <tr><td>7</td></tr> <tr><td>9</td></tr> <tr><td>11</td></tr> <tr><td>13</td></tr> </table> <p>P.W.B MOUNTING DETAIL VIEWED FROM MOUNTING SIDE</p>	H <sub>1</sub>	5	7	9	11	13
H <sub>1</sub>							
5							
7							
9							
11							
13							
<b>DC10F12204</b> vertical type 	 <p>P.W.B MOUNTING DETAIL VIEWED FROM MOUNTING SIDE</p>						