

## 12mm Insulated Shaft Rotary Encoder

### Application

- ✓ Audio, Home appliance, Precision apparatus, Automotive, Communication, Industrial control, etc.



### Feature

- ✓ Incremental Output Signal Encoder

### ■ Specification

Rotation Angle	360° endless
Rating	5V DC 0.5mA
Operating Temperature	-10 °C~70 °C
Rotational Torque	30 ~ 150 gf.cm
Rotational Life	15,000 cycles (rotate 360° ccw and rotate 360° cw as 1 cycle)
Switch Circuit	S.P.S.T. (Push on)
Switch Stroke	0.5 mm
Switch Rating	5V DC 1mA
Switch Operating Force	200 ~ 460 gf.cm
Switch Operating Life	20,000 cycles

### ■ How to order

RE130F – 40 – 20F – 12P

[Model](#)

[Resolution](#)

Code	Model	Pulses	Detents
12P	RE130	12	12
24P	RE120	24	24

[Shaft](#)

#### Terminal Type

Code	Terminal type	Push Switch
40	Vertical	Without switch
41	Vertical	With switch


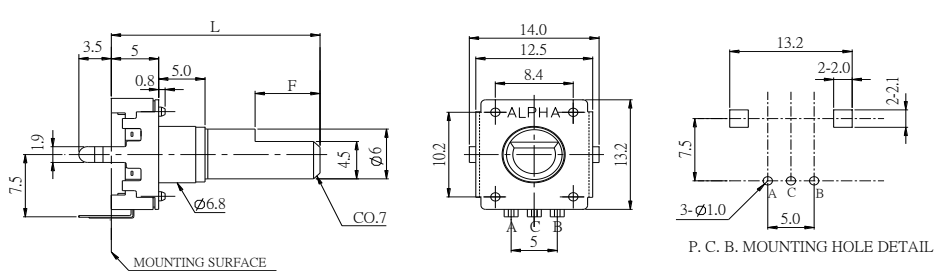

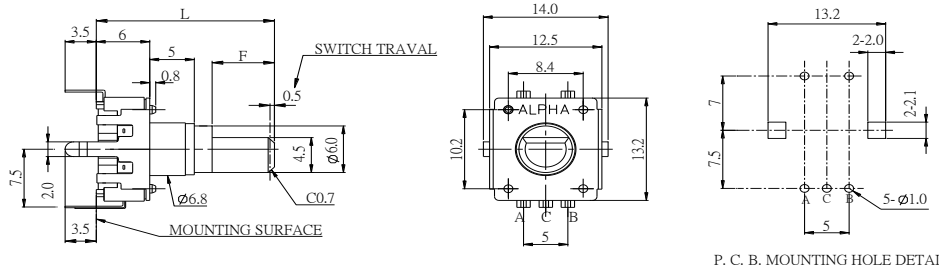

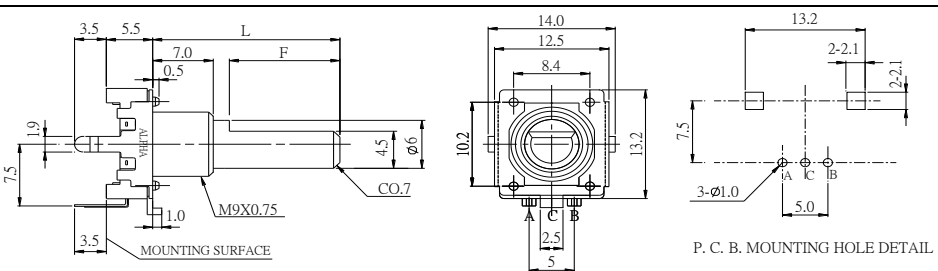
Code	Bushing Type (D)		Bushing Thread
None	∅6.8mm	5mm	Without thread
E3	∅9mm	7mm	With thread

E3 Just for Terminal code '40'

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### Model Description

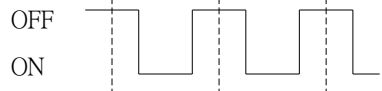
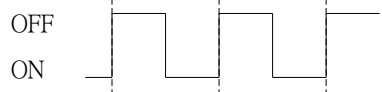
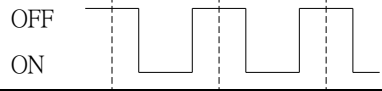
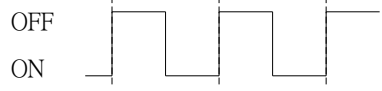
Model	Terminal Type	Push Switch	Bushing Type (D)		Bushing Thread
RE130F-40	Vertical	Without switch	Ø6.8mm	5mm	Without thread
RE120F-40	Vertical	Without switch	Ø6.8mm	5mm	Without thread
RE130F-41	Vertical	With switch	Ø6.8mm	5mm	Without thread
RE12CF-41	Vertical	With switch	Ø6.8mm	5mm	Without thread
RE130F-40E3	Vertical	Without switch	Ø9mm	7mm	With thread
RE120F-40E3	Vertical	Without switch	Ø9mm	7mm	With thread

Order Code	Outline Drawing																								
RE130F-40-(L)F-12P RE120F-40-(L)F-24P 	 <p style="text-align: center;"><b>RE130F</b></p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>L</td><td>20</td></tr> <tr><td>F</td><td>7</td></tr> </table> <table border="1" style="display: inline-table;"> <tr><td>L</td><td>20</td><td>30</td></tr> <tr><td>F</td><td>7</td><td>12</td></tr> </table>	L	20	F	7	L	20	30	F	7	12														
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F	7	12																							
RE130F-41-(L)F-12P RE12CF-41-(L)F-24P 	 <p style="text-align: center;"><b>RE130F</b></p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>L</td><td>17.5</td><td>20</td><td>22.5</td><td>25</td><td>30</td></tr> <tr><td>F</td><td>5</td><td>7</td><td>7</td><td>12</td><td>12</td></tr> </table> <p style="text-align: center;"><b>RE12CF</b></p> <table border="1" style="display: inline-table;"> <tr><td>L</td><td>17.5</td><td>20</td><td>22.5</td><td>25</td><td>30</td></tr> <tr><td>F</td><td>5</td><td>7</td><td>7</td><td>12</td><td>12</td></tr> </table>	L	17.5	20	22.5	25	30	F	5	7	7	12	12	L	17.5	20	22.5	25	30	F	5	7	7	12	12
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## 12mm Insulated Shaft Rotary Encoder

### ■Resolution and Output Signal

Model	Resolution (Pulses/Rotation)	Detent Number	Output Signal Format		
			Shaft Rotational Direction	Signal	Output
RE130	12/360°	12	C.W.	A (Terminal A-C)	
				B (Terminal B-C)	
RE120	24/360°	24	C.W.	A (Terminal A-C)	
				B (Terminal B-C)	

**Design and specifications presented here are for the standard parts only. Please kindly contact us for your special requests and ask for the current technical specifications before purchase and/or use.**

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