

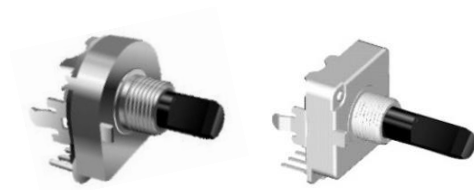
## 20mm Gray & Binary Rotary Encoder

### Application

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

### Feature

- ✓ Encoder programmed with 4 bit coding for varies digital circuit.



### ■Specification

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Rotation Angle              | 360° endless                                                  |
| Rating Voltage              | 10V DC 10mA                                                   |
| Operating Temperature Range | -10 °C~85 °C                                                  |
| Rotational Torque           | 50 ~ 350 gf.cm                                                |
| Rotational Life             | 50,000 cycles (rotate 360° ccw and rotate 360° cw as 1 cycle) |

### ■How to order

RE2001F – 40E2 – 20F – 4G

[Model](#)

[Resolution](#)

| Code | Position Type           |
|------|-------------------------|
| 4G   | 16-Position Gray Code   |
| 4B   | 16-Position Binary Code |

#### Terminal Type

| Code | Terminal type | Switch         |
|------|---------------|----------------|
| 20   | Horizontal    | Without switch |
| 40   | Vertical      | Without switch |

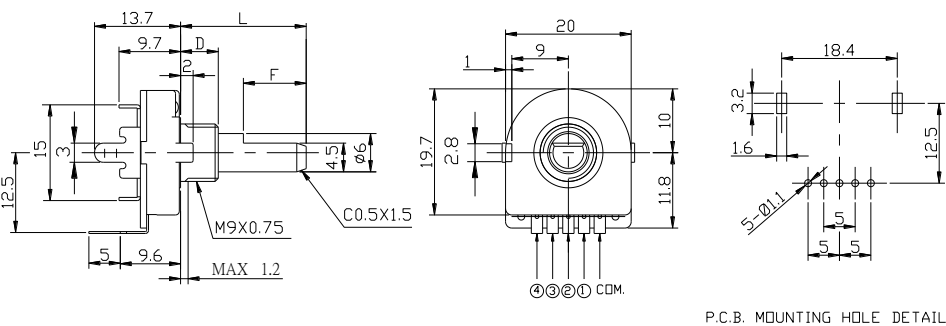
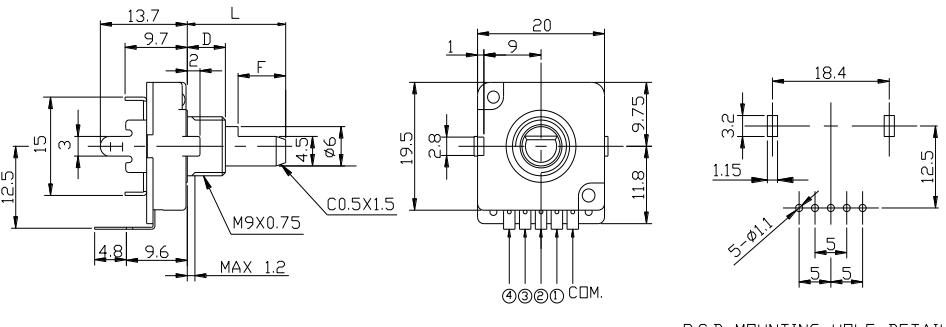
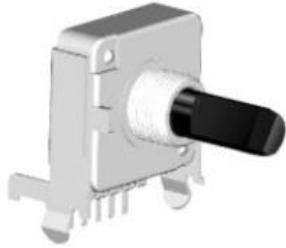
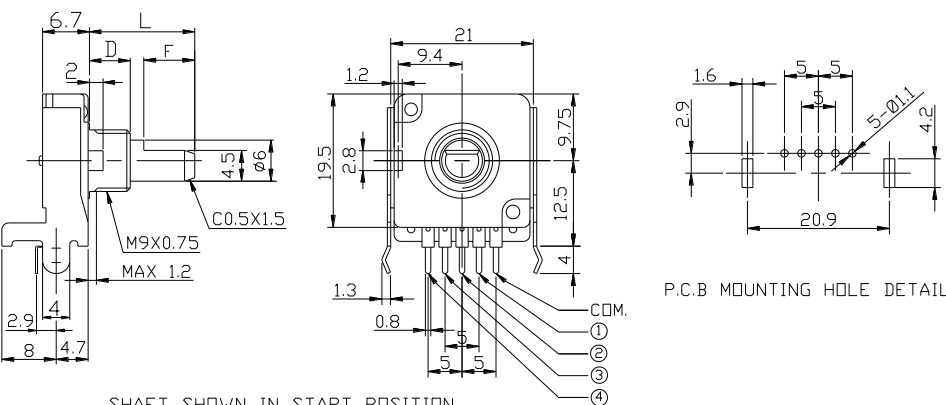
| Code | Bushing Type (D) |     |
|------|------------------|-----|
| E2   | Ø9mm             | 6mm |

[Shaft](#)

## 20mm Gray & Binary Rotary Encoder

### ■Model Description

| Model        | Terminal Type | Switch         | Bushing Type (D) |     | Bushing Thread |
|--------------|---------------|----------------|------------------|-----|----------------|
| RE2001F-40E2 | Vertical      | Without switch | Ø9mm             | 6mm | With thread    |
| RE200F-40E2  | Vertical      | Without switch | Ø9mm             | 6mm | With thread    |
| RE200F-20E2  | Horizontal    | Without switch | Ø9mm             | 6mm | With thread    |

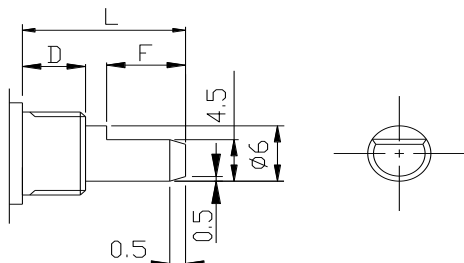
| Order code                                                                                             | Outline Drawing                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>RE2001F-40E2</p>  |  <p>SHAFT SHOWN IN START POSITION</p> <p>P.C.B. MOUNTING HOLE DETAIL</p>  |
| <p>RE200F-40E2</p>  |  <p>SHAFT SHOWN IN START POSITION</p> <p>P.C.B. MOUNTING HOLE DETAIL</p> |
| <p>RE200F-20E2</p>  |  <p>SHAFT SHOWN IN START POSITION</p> <p>P.C.B. MOUNTING HOLE DETAIL</p> |

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## 20mm Gray & Binary Rotary Encoder

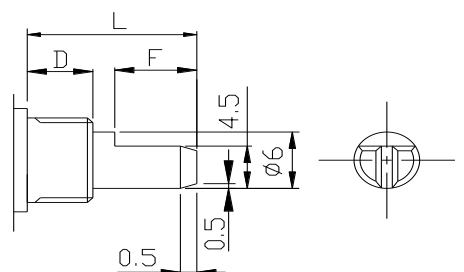
### ■ Shaft and Bushing Dimensions

#### F Type



| D | 6(E2) | 6(E2) |
|---|-------|-------|
| L | 15.5  | 20    |
| F | 7.5   | 10    |

#### A Type



| D | 6(E2) |
|---|-------|
| L | 25    |
| F | 12    |

### ■ Standard Codes

The ● mark shows the ON position

|      |          | Position |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|------|----------|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Code | Terminal | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Gray | 1        |          | ● | ● |   |   | ● | ● |   |   | ●  | ●  |    |    | ●  | ●  |    |
|      | 2        |          |   | ● | ● | ● | ● |   |   |   |    | ●  | ●  | ●  | ●  |    |    |
|      | 3        |          |   |   |   | ● | ● | ● | ● | ● | ●  | ●  | ●  |    |    |    |    |
|      | 4        |          |   |   |   |   |   |   |   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

### ■ Standard Codes

The ● mark shows the ON position

|        |          | Position |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|--------|----------|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Code   | Terminal | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Binary | 1        |          | ● |   | ● |   | ● |   | ● |   | ●  |    | ●  |    | ●  |    | ●  |
|        | 2        |          |   | ● | ● |   |   | ● | ● |   |    | ●  | ●  |    |    | ●  | ●  |
|        | 3        |          |   |   |   | ● | ● | ● | ● |   |    |    |    | ●  | ●  | ●  | ●  |
|        | 4        |          |   |   |   |   |   |   |   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

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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Authorized Distributor

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