

## Feature

1. Compact and highly accurate sliding contact type encoder
2. Incremental type

## F-16E Rotary Encoder

### Electrical characteristics

- Rated Power.....DC 5V 5mA(0.5mA Min)
- Fluttering..... $T1, t3 \leq 3ms$
- Insulation Resistance.....More than  $10m\Omega$  at Dc50v 1m A
- Withstand voltage.....1 minute at AC 50V 1mA
- Sliding Noise(Bounce)..... $T2 \leq 2ms$
- Phase Difference..... $\Delta T \geq 0.08T$

### Mechanical characteristics

- Rotation Torque of Detent.....30 ~ 130gf.cm
- Rotation Torque Rang.....10 ~ 90gf.cm
- Total Rotational Angle.....Continuous
- Number and Position of Detent.....12 Detents (Angle:  $30^\circ \pm 3^\circ$ )  
24 Detents (Angle:  $15^\circ \pm 3^\circ$ )
- Push-Pull Strength ..... 8.0kgf Min for 10s
- Push & Nut Tight Strength ..... 10.0kgf Min

### Durability

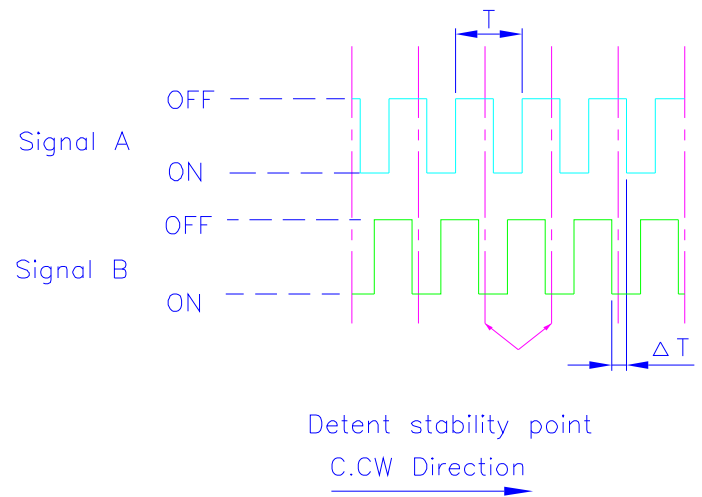
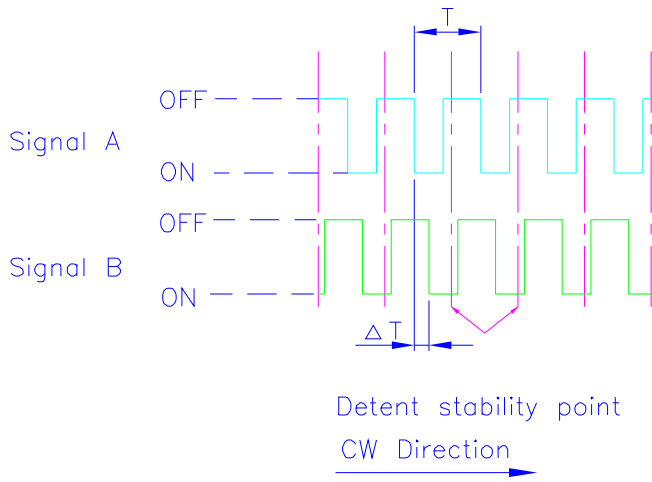
- Rotational Life.....15,000 Cycles Min.



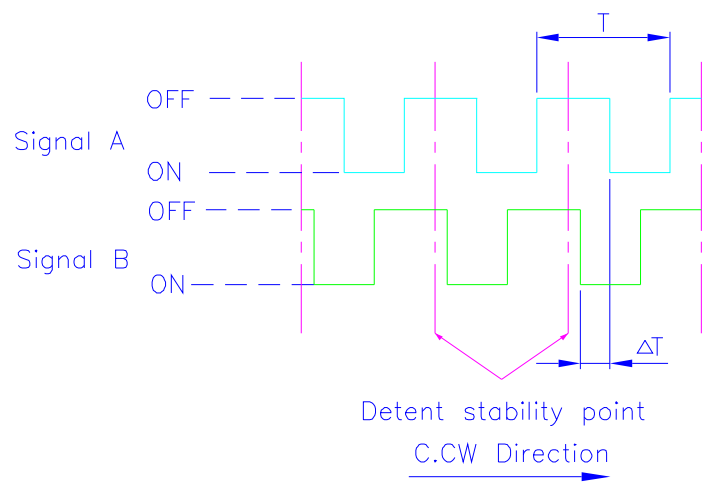
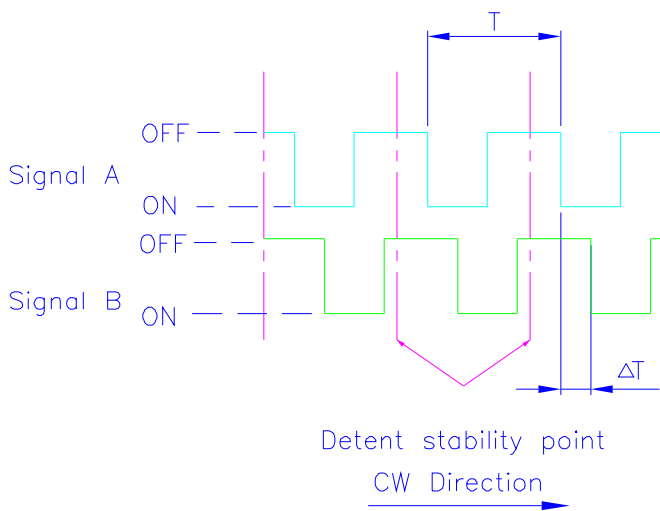
# 16mm Encoder output wave diagram



(24 Pulse with 24 detent)



(12 Pulse with 12 detent)



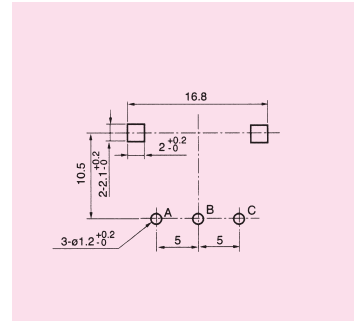
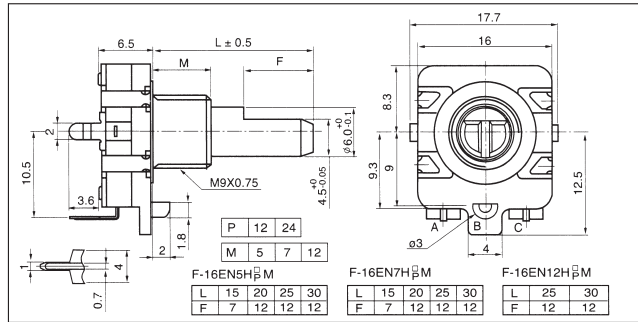
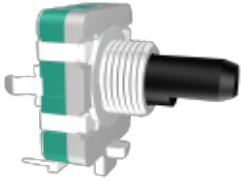


# F-16E Series

## Rotary Encoder

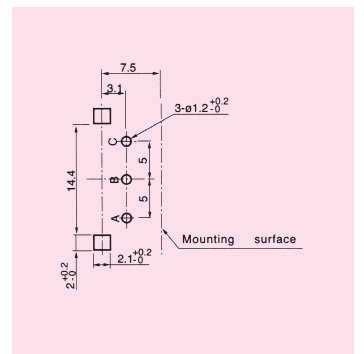
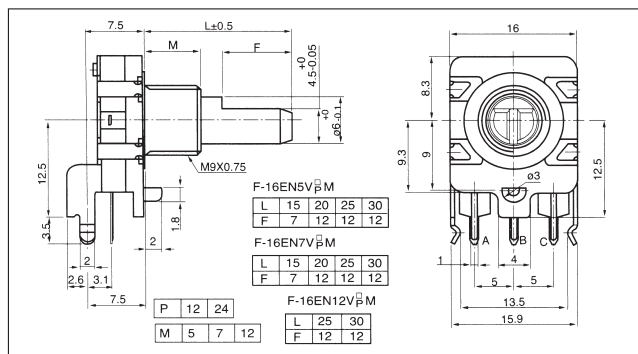
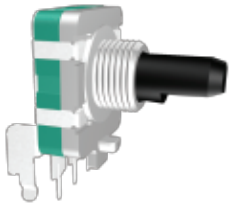
### F-16EN<sup>□</sup><sub>M</sub>H<sup>□</sup><sub>P</sub>M

Horizontal Type, Single Unit,  
P.C.B. Terminal



### F-16EN<sup>□</sup><sub>M</sub>V<sup>□</sup><sub>P</sub>M

Vertical Type, Single Unit,  
P.C.B. Terminal





### Part number system of encoder

