

Commercial Miniature Encoder

- 2 bit quadrature (Gray code)
- Momentary SPST switch optional
- Durable metal shaft
- 9mm Body



Electrical and Mechanical Specifications

Encoder Ratings :

Contact Resistance

1 Ω maximum

Voltage Rating (each channel)

12 VDC @ 10 mA maximum.

5 VDC @ 1 mA minimum.

Phase Difference (FIG.1)

T_1, T_2, T_3, T_4 —5 milliseconds min.

at 60 rpm CW/CCW

Contact Bounce / Chatter (FIG.3)

t_1, t_2, t_3 —3 milliseconds max.

at 60 rpm CW/CCW

Rotational Torque

10 to 120 g-cm

Rotational Life

50,000 cycles

Resolution

20 pulses in 360°

Momentary SPST Switch Ratings :

Contact Resistance

100 m Ω maximum

Voltage Rating

16 VDC @ 0.5A max.

@ 10 mA min.

Switch Bounce

5 milliseconds maximum

Switch Operating Force

600 \pm 300 grams for 0.5 mm travel

Switch Life

100,000 operations for 0.5 mm travel

Switch Travel

0.5 mm

General Ratings :

Temperature Ratings

Storage : -40°C to +85°C

Operation : -30°C to +70°C

Solderability

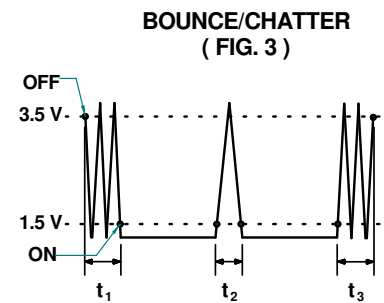
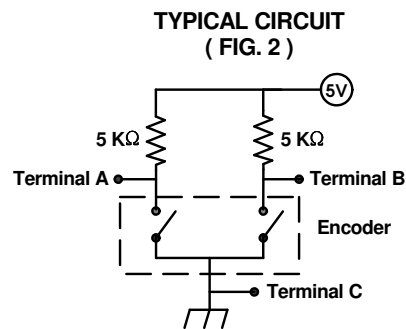
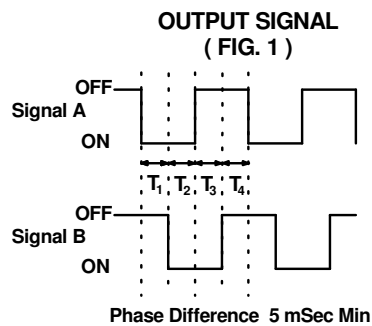
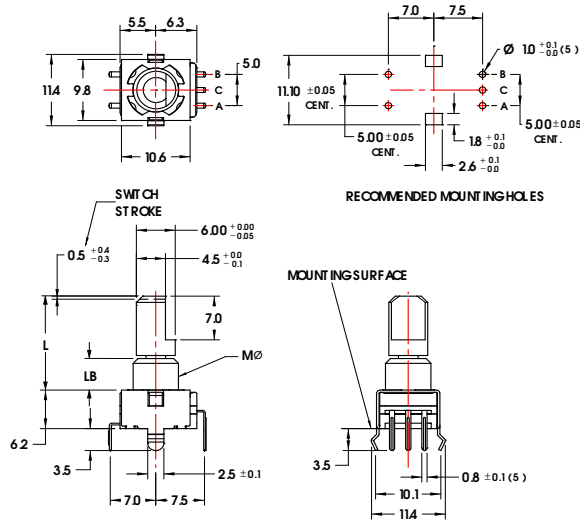
Flux for 5-10 sec., then dip into a

Solder bath at 300 \pm 5°C for 3 sec.

Pull and Thrust on Shaft

Withstands a pushing and pulling force of 10kg-f static load applied in axial direction for 10 \pm 1 sec. without physical damage or electrical degradation.

Mechanical Layout (all dimensions in mm)



290 SERIES PART NUMBERING

