

Feature

1. Miniature and highly accurate contact type encoder.
2. 7.7 mm wide and 9.35mm high envelope.
3. Incremental type. 4. Long Life Type Available.

F08xE Series Encoder

Electrical characteristics

- Rated Power.....DC 5V, 2.5mA(1mA Min)
- Contact Resistance.....10 Ω Max at DC 5V, 1mA
- Insulation Resistance.....More than 100M Ω at 250V for 1 minute
- Withstand Voltage.....AC 300V for 1 minute
- Number of Detent.....20 detents (Angle: $18^\circ \pm 3^\circ$)
- Resolution.....10 Pulses/360° for each phase.
- Chattering.....3ms Max
- Phase- Difference.....Td=T/4 $\pm$ T/6(in case of no detent)

Mechanical characteristics

- Rotational Torque20~250gf.cm(0~+70°C)
500gf.cm max(0~-30°C)
- Total Rotational Angle.....360° Continuous
- Push-Pull Strength of Shaft.....Pull :10.0Kgf Min
Push: 10.0Kgf Min
- Bushing & Nut Tight Strength10.0Kgf.cm Min

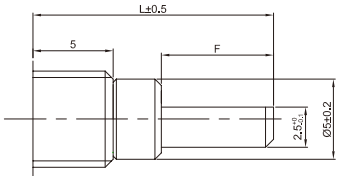
Endurance characteristics

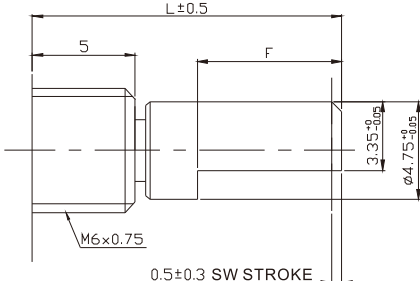
- Rotational Life.....50,000 Cycles Min.
- Load Life.....50,000 Cycles Min with load.
- Dry Heat.....70°C, 240 $\pm$ 10H, CR is 10 Ω Max;
IR 10M Ω Min at DC250V.
- Cold-30°C, 1H, CR is 10 Ω Max;
IR 10M Ω Min at DC250V.
- Damp Heat.....40 $\pm$ 2°C, 90-95 RH for 96H, CR is 10 Ω Max;
IR 10M Ω Min at DC250V.

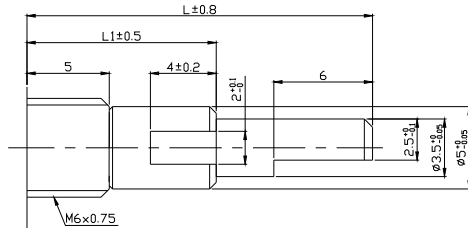
HOW TO ORDER

F08xE-		N	W	5	6	1	F	1				
		Code		Seal Option		Shaft Type &Length See Note 1						
		D		Dustproof								
		W		Waterproof for Shaft Par (No Push Switch)								
		Code		Switch Option		Pulse and Detent						
		N		No Switch								
		S		With Push Switch (Only Available with Single Shaft)								
Model Series						Code			Bushing Type			
						6		M6 Threaded Bushing				
						7		M7 Threaded Bushing				
F081E		8mm Single Shaft Rotary Encoder							Code		Length of Bushing	
F082E		8mm Dual Shaft Rotary Encoder							5		5.0mm	

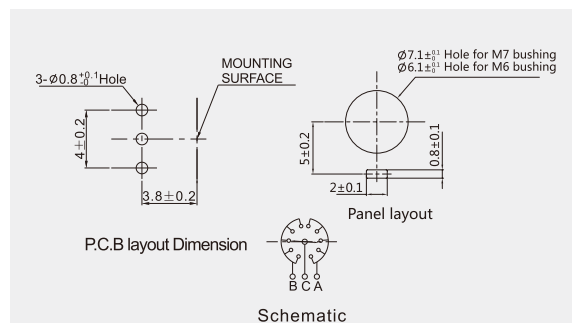
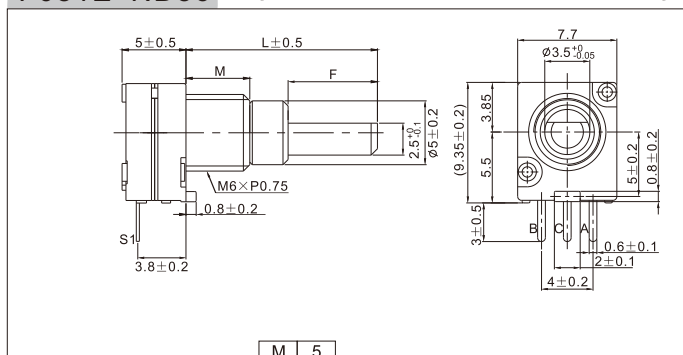
Note 1: Shaft Type & Shaft Length:

F-Type with Single Shaft		
		
Code	1	
L	15	
F	7	

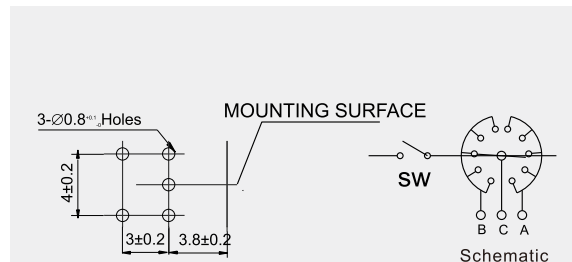
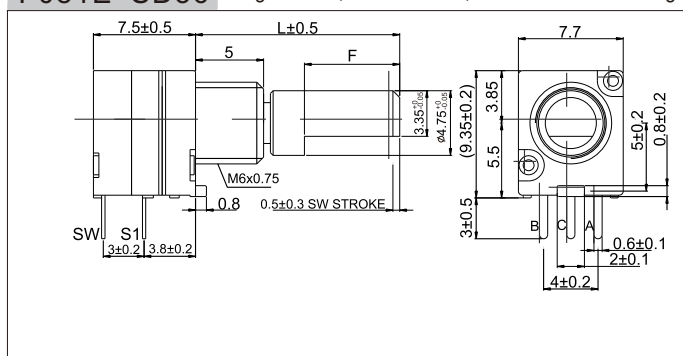
F-Type with Push Switch / Single Shaft		
		
Code	1	2
L	15	20
F	7	10

F-Type with Dual Shaft		
		
Code	1	
L	21	
L1	11.5	

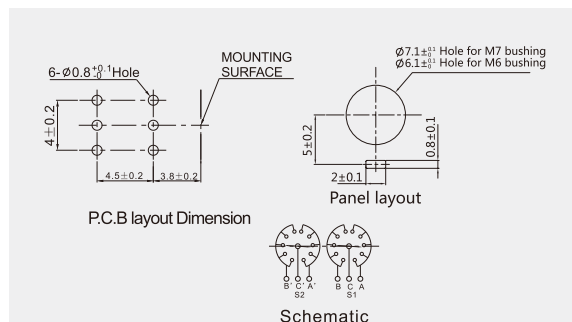
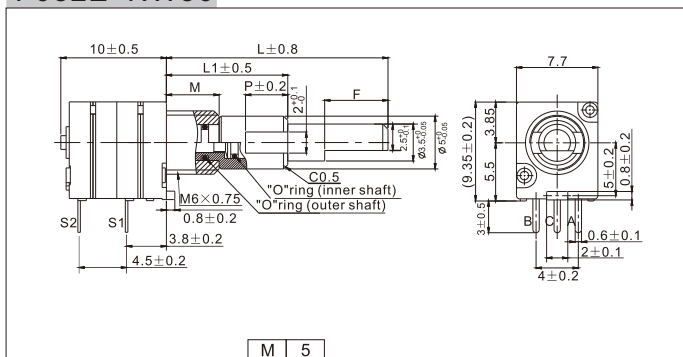
F081E-ND56 Single Shaft, No Switch, M6 Threaded Bushing



F081E-SD56 Single Shaft, Push Switch, M6 Threaded Bushing



F082E-NW56 Dual Shaft, No Switch, M6 Threaded Bushing



F082E-NW57 Dual Shaft, No Switch, M7 Threaded Bushing

