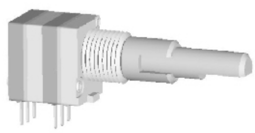
F08xE Series
Rotary Encoder



RoHS
COMPLIANCE

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

Mechanical characteristics

- Rotational Torque..........20~250gf.cm(0~+70℃)
  500gf.cm max(0~-30℃)
- Total Rotational Angle..........360° Continuous
- Push-Pull Strength of Shaft.......... Pull :10.0Kgf Min
  Push: 10.0Kgf Min
- Bushing & Nut Tight Strength.......... 10.0Kgf.cm Min

Endurance characteristics

- Rotational Life..........50,000 Cycles Min.
- Load Life..........50,000 Cycles Min with load.
- Dry Heat..........70°C,240±10H,CR is 10Ω Max;
  IR 10MΩ Min at DC250V.
- Cold..........-30°C ,1H,CR is 10Ω Max;
  IR 10MΩ Min at DC250V.
- Damp Heat..........40±2℃,90-95 RH for 96H,CR is 10Ω Max;
  IR 10MΩ Min at DC250V.
- Operating Temperature Range..........-10°C ~ +70°C

F08xE Series
Rotary Encoder

HOW TO ORDER

F08xE-	N	W	5	6	1	F	1

Model Series	
F081E	8mm Single Shaft Rotary Encoder
F082E	8mm Dual Shaft Rotary Encoder

Code	Switch Option
N	No Switch
S	With Push Switch (Only Available with Single Shaft)

Code	Seal Option
D	Dustproof
W	Waterproof for Shaft Par (No Push Switch)

Code	Length of Bushing
5	5.0mm

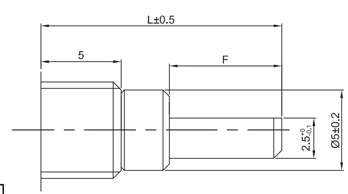
Code	Bushing Type
6	M6 Threaded Bushing
7	M7 Threaded Bushing

Code	Pulse and Detent
0	10 Pulses without Detent
1	10 Pulses with 20Detents

Shaft Type &Length
See Note 1

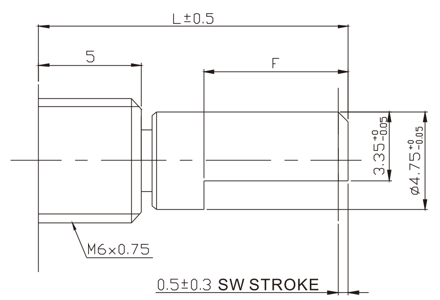
Note 1: Shaft Type & Shaft Length:

F-Type with Single Shaft



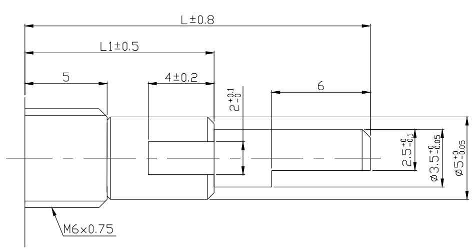
Code	1
L	15
F	7

F-Type with Push Switch / Single Shaft



Code	1	2
L	15	20
F	7	10

F-Type with Dual Shaft



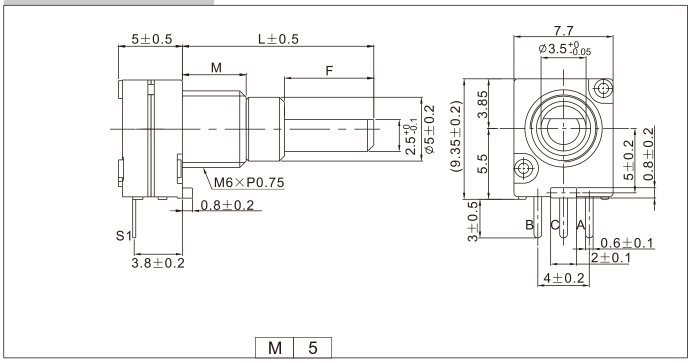
Code	1
L	21
L1	11.5

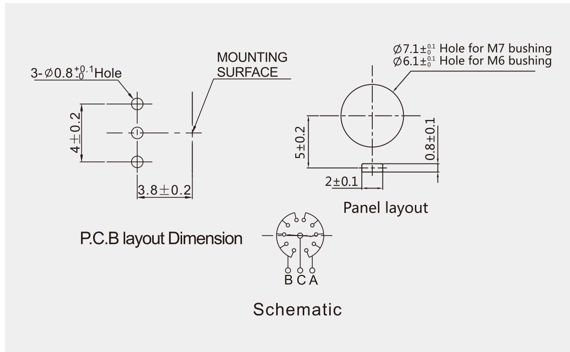
Encode

FU FAVOR UNION ®

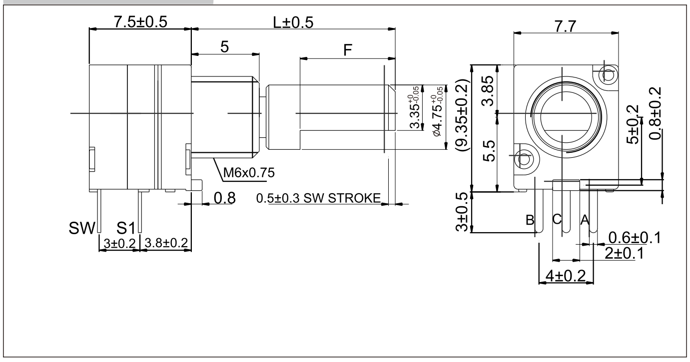
F08xE Series
Rotary Encoder

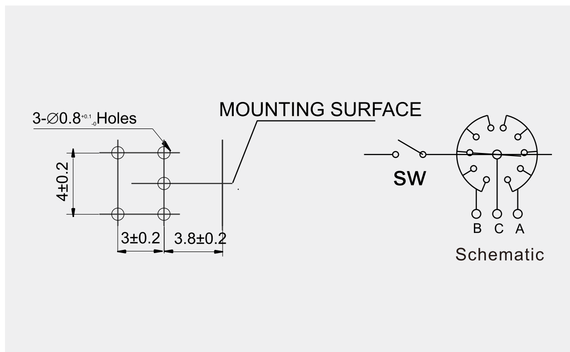
F081E-ND56 Single Shaft, No Switch, M6 Threaded Bushing



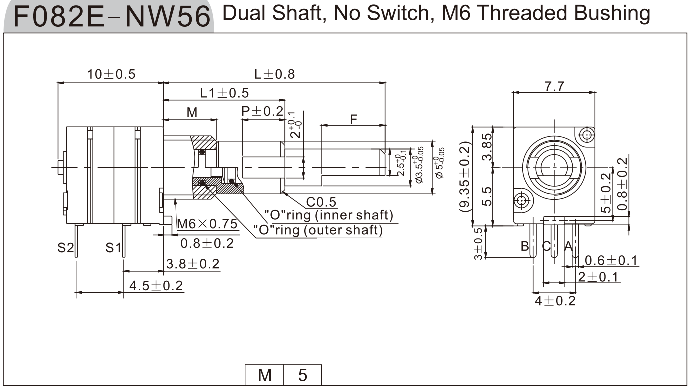


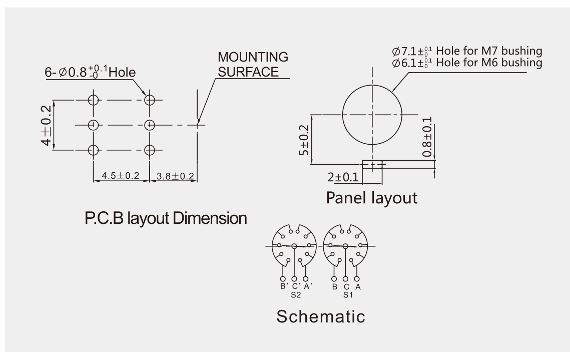
F081E-SD56 Single Shaft, Push Switch,M6 Threaded Bushing



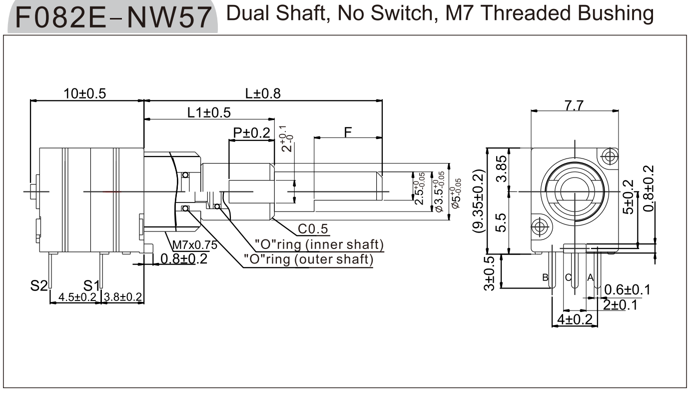


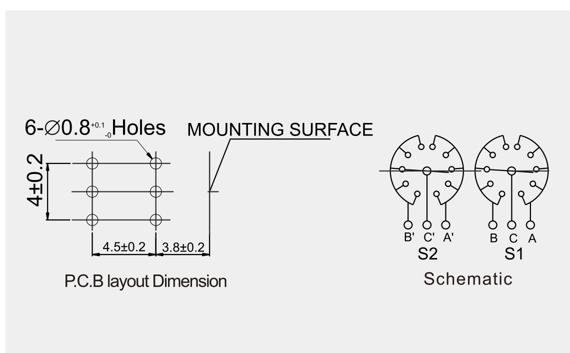
F082E-NW56 Dual Shaft, No Switch, M6 Threaded Bushing





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





Encode