FSE11 Series

Rotary Position Sensor

Feature

1. Dust proof construction protects the interior from dust, which maintains stable characteristics.
2. Compliant to reflow high peak temperature lead free soldering
3. Excellent resistance materials and high reliability wiper achieves 1,000,000 cycles.
4. Ultra-thin size. (2.2mm height)

Typical Applications

- Animal Robot Joint Controller
- HAVC Sensor
- Motor Drive Unit
- Electric Motor-Driven Bicycle
- Rotary Angle Sensor

FSE11 Series Position Sensor

Electrical characteristics

- Resistance Range.....1K~100K
- Total Resistance Tolerance.....±20%
- Taper Style.....B taper
- Power Rated.....0.1W
- Linearity .....>200°±2%
  ⩽200°±3%
- Rotational Noise.....Less than 80mv
- T.C.R.....±500ppm/℃

Mechanical characteristics

- Effective electrical Angle .....333±3°
- Rotational Torque.....0~30gf.cm
- Push-pull Strength of Shaft.....Over1.0kgf for 10 seconds min
- Total Rotational Angle .....360° (Endless)

Environmental characteristics

- Storage Temperature.....-40℃ to +120℃
- Operating Temperature.....-40℃ to +120℃
- Life Cycles.....1,000,000 Cycles Min
- Dry Heat.....120±3℃, 250±8H
  △TR: ±20%,Linearity: ±2%
- Cold.....-40±3℃, 168±4H
  △TR: ±20%,Linearity: ±2%
- Humidity.....60±2℃, 90~95RH,250±8H
  △TR: ±20%,Linearity: ±2%
- Temperature Cycles.....-40℃~+120℃, 5cycles
  △TR: ±20%,Linearity: ±2%

FSE11 Series
Rotary Position Sensor

HOW TO ORDER

FSE11-	01	D	B	5K	g0

Model Series

Code / Product Type

Code	Product Type
01	SMD Type

Rotor Style

See Note 1

Code / Resistance Taper

Code	Resistance Taper
B	Linear（0B）

Total Resistance

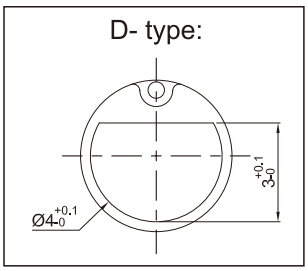
1K
2K
5K
10K
20K
50K
100K

Electrical Angle Code

See Note 2

Note 1: Rotor style

D- type:



Note 2: Code of Electrical Angle

Code	P0	W0	g0	h3
Angle	180 °	250 °	320 °	333 °

FSE11-01D

SMD Type with D Type Rotor