



Feature

- 1.FR-4 element materials compliant to flow high peak temperature lead free soldering.
- 2.Long life,over 200,000 Cycles .

FSE 28 Series Position Sensor

Electrical characteristics

- Resistance Range..... 1K~100K
- Total Resistance Tolerance..... $\pm 20\%$
- Taper Style.....B taper
- Power Rated0.1W
- Linearity $\pm 2\%$
- Contact NoiseWithin 10%TR
- Rated VoltageDC5V ± 0.5 V

Mechanical characteristics

- Electrical Angle..... $250^\circ \pm 3$
- Rotational Torque.....0~50gf.cm
- Push Pull Strength of Shaft.....1.0kgf for 10 seconds min
- Total Rotational Angle 360° (Endless)

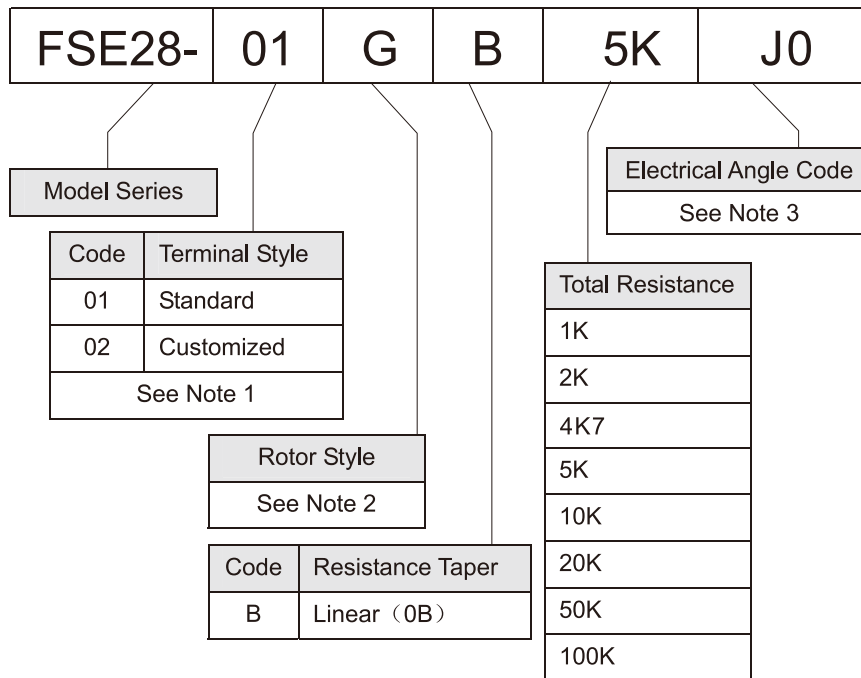
Typical Applications

- HVAC sensor
- Rotary Angle Sensor

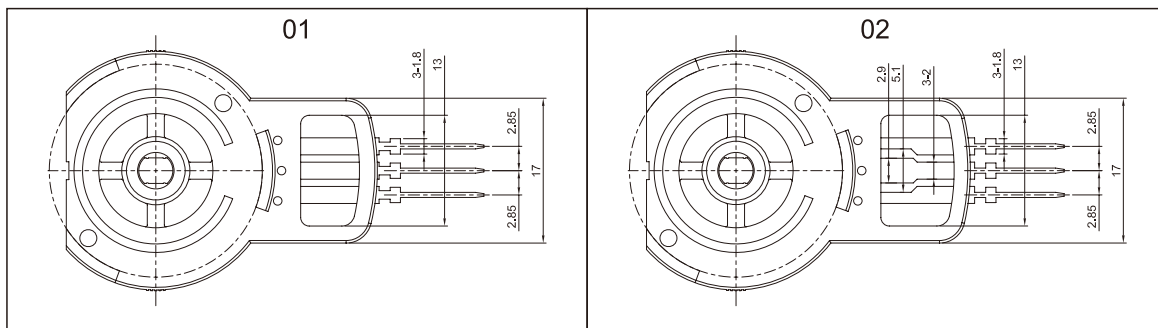
Environmental characteristics

- Storage Temperature..... -40°C to $+85^\circ\text{C}$
- Operating Temperature..... -40°C to $+85^\circ\text{C}$
- Life Cycles.....200,000 Cycles Min
- Dry Heat..... $+85 \pm 3^\circ\text{C}$, 168 ± 4 H
 $\Delta\text{TR}: \pm 40\%$, Linearity: $\pm 3\%$
- Cold..... $-40 \pm 3^\circ\text{C}$, 168 ± 4 H
 $\Delta\text{TR}: \pm 40\%$, Linearity: $\pm 3\%$
- Humidity..... $60 \pm 2^\circ\text{C}$, 90~95RH, 100 ± 4 H
 $\Delta\text{TR}: \pm 40\%$, Linearity: $\pm 3\%$
- Temperature Cycles..... $-40^\circ\text{C} \sim +85^\circ\text{C}$, 5cycles
 $\Delta\text{TR}: \pm 40\%$, Linearity: $\pm 3\%$

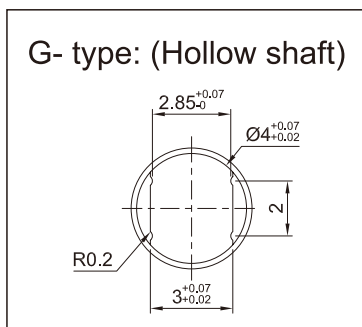
HOW TO ORDER



Note 1: Terminal Style



Note 2: Rotor style

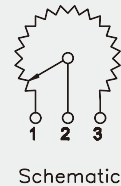
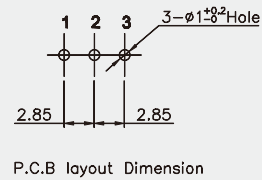
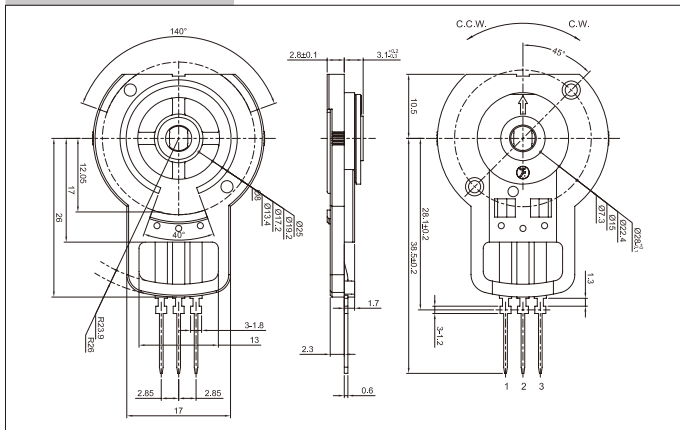


Note 3: Electrical angle code

Code	J0	M8	N0	O0	P0	U5	W0
Angle	120°	158°	160°	170°	180°	235°	250°

FSE28-01G

Standard Type with G Type Rotor



FSE28-02G

Standard Type with G Type Rotor

