

# A22 Angle Position Sensor

## PRODUCT FEATURES

- Metal shell, stainless steel shaft;
- Double bearing structure, stable and reliable;
- Metal bracket, stable installation;
- Sealed up to IP65;
- High quality brushes, electric substrate, more than 5 million times life span;

## APPLICATION

Widely used in Joysticks, Master switches, Valve controls, Inclinator industries.



## TECHNICAL INFORMATION

Environment Parameter	
Storage Temperature	Normal temperature
Operating Temperature	-30 C ~+80 C
EMC Anti-interference Rank	100V/m, 30MHz to 1GHz, 80% sine-wave modulation, meet EN50082-2 (1995) standard
EMC Emission Rank	Rank B, 150KHz to 30MHz, meet EN50081-2 (1993) standard
ESD Anti-interference Rank	Rank 4, 8KV contact discharge, 15KV air discharge, meet IEC61000-4-2 standard
Mechanical Parameter	
Mechanical Angle	360°continuous
Mechanical Life	30 million circles
Load Life	1000 hours at rated power (1W)
Rotating Torque	1mN.m
Vibration	Amplitude±3g, Frequency: 10Hz-200Hz
Impact	20g, 6ms, Semi-sinusoidal
Electrical Parameter	
Power Supply Voltage	0-48V
Nominal Resistance Range	1K, 2K, 5K, 10K, 20K
Electrical Angle	60°±1°, 160°±1°, 230°±1°, 345°±2°
Total Resistance Tolerance	±5%
Independent Linear Tolerance	1.5%
Rated Power	0.7W(@70°C)
Resistance Temperature Coefficient	≤±300ppm/°C
Insulation Resistance	≥500MΩ(500V.D.C.)
Insulation Voltage	1000V(AC.RMS)1 min

PRODUCT CONFIGURATION

Order Code	A22-----□-----□-----□-----□-----□-----□
Model Selection	①    ②    ③    ④    ⑤    ⑥    ⑦

Model Selection Description:

- ① Serial Number: A22
- ② Shaft Diameter: 4mm, 6mm
- ③ Shaft Length: 5mm, 9mm, 13mm
- ④ Shaft Slot Type: D type: D, - type: L
- ⑤ Potentiometer Terminals: 3 pins, 4 pins
- ⑥ Resistance Value: 1k, 2k, 5k, 10k, 20k
- ⑦ Electrical Angle: 60°±1°, 160°±1°, 230°±1°, 345°±2°

Example: if need AS22 angle position sensor potentiometer, shaft diameter: 4mm, shaft slot type: D type, 4 pins, resistance: 5K, electrical angle: 160°

Order Code: A22-4-13-D-4-5K-160

PRODUCT INSTALLATION

