Model TSAOF22

None-Contact Angle Position Sensor

- Hall effective
- Absolute Position
- Linearity <±0.2%
- Long life
- Single turn
- Penal Mount
- None-Standard Features and Specifications Available

MECHANICAL

Total Mechanical Travel	0 - 360(±5)° (with\without stop)
Starting Torque	0.5Ncm
Max Rotating Speed	120rpm
Max Permitted Axial Shaft Load	10N
Max Permitted Radial Shaft Load	10N
Weight	24g

ELECTRICAL

Measuring Range	360° (Find more options in ORDER INFO)
Independent Linearity	< ±0.2%
Resolution	12 bit
Refresh Rate	290 (±15) μs
Max. Hysteresis	0.1°
Max. Repeatability	0.1°
Supply Voltage	5 (±10%) VDD (Find more options in ORDER INFO)
Supply Current	<12mA
Output Load Analog	10kΩ
Load Output Capacity	10 to 330nF

ENVIRONMENTAL

Protection Class	IP54/IP65
Life	> $10*10^6$
Operation Temperature Range	-40°C ~ +150°C (Find more options in ORDER INFO
Shock	50g, 11m
Storage Temperature	-40°C ~ +85°C

CE-CONFORMITY

RF noise field strength EN 55011, class B
ESD EN 61000-4-2
Radiated immunity EN 61000-4-3
Burst EN 61000-4-4
Conducted disturbances induced by RF fields EN 61000-4-6

ACCESSORY

Length of wires / ribbon cable	Standard	AWG24 15cm
Length of wires / ribbon cable	Optional	AWG24 20cm
Length of wires / ribbon cable	Optional	Other Length

ORDERING INFORMATION

Shaft Type

D	Standard	D Type
I	Standard	I Type
R	Standard	Round Type
X	Optional	Other Type Request

Shaft Length

1	Standard	24mm
2	Standard	16mm
X	Optional	Other Length Request

Operation Temperature

E	Standard	-40°C ~ +85°C
K	Standard	-40°C ~ +125°C
L	Optional	-40°C ~ +150°C

Mechanical Travel

360° without stop	Standard	1
Other Angle Request with stop	Optional	X

Effective Electronic Travel

300°	Standard	1
235°	Standard	2
Other Angel	Optional	X

TSAOF22	1	1	1	3	0	0	3	6	0	D	1	E

Output Signal

1	Standard	10% - 90%
2	Standard	0% - 100%
3	Optional	4 - 20 mA
X	Optional	X% - Y%

Input Voltage

1	Standard	5V DC
2	Optional	10V DC
3	Optional	12V DC
4	Optional	24V DC
X	Optional	Other Input Request

Output Characteristic

1	Standard	Positive gradient CW
2	Standard	Positive gradient CCW
3	Optional	Redundant, positive gradient CW
4	Optional	Redundant, positive gradient CCW
X	Optional	Other Request

OUTLINE DRAWING