

Model TSAOF40

None-Contact Angle Position Sensor

- Hall effective
- Absolute Position
- Linearity $<\pm 0.2\%$
- 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	$< \pm 0.2\%$
Resolution	12 bit
Refresh Rate	290 (± 15) μ s
Max. Hysteresis	0.1°
Max. Repeatability	0.1°
Supply Voltage	5 ($\pm 10\%$) VDD (Find more options in ORDER INFO)
Supply Current	< 12 mA
Output Load Analog	10k Ω
Load Output Capacity	10 to 330nF

ENVIRONMENTAL

Protection Class	IP54/IP65
Life	$> 10 \times 10^5$
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

		Mechanical Travel	
200° with stop	Standard	1	
Other Angle Request with stop	Optional	X	
		Effective Electronic Travel	
180°	Standard	1	
Other Angel	Optional	X	

Shaft Type

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

Shaft Length

1	Standard	22mm
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

TSAOF40 **1 1 1 1 8 0 2 0 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

