

# TS121

High Resolution Angular Sensor



### Feature



High-precision MEMS Angle Measurement Unit  
(Up To 0.01° Output Resolution)



Gyro Automatic Compensation



Independent Sealing



Shockproof and Stable

### Specifications

#### Sensor Performance

Resolution	0.01°
Static Accuracy	0.1°
Dynamic Accuracy	0.3°
Axes(Tilt) Range	Pitch±180°, roll±90°
Axes(Acceleration)	X, Y, Z
Max Angular Rate	±300° / s
Acceleration	±6 g

#### Data Rate

Output Data Rate(Hz)	10~100 Hz, default 10 Hz
Interface	CAN2.0 or RS485
CAN Baud	100 kbps~1000 kbps, default 250 kbps
RS485 Baud	115200~512000 bps, default 115200 bps

#### Physical

Impact Resistance	1500 g
Vibration Resistance	10 g (10~2000 Hz,3-axis)
Salt Spray Resistance	(5±1)%; PH (6.5—7.2)
Protection Class	IP68
Operating Temperature	-40°C~ +85°C
Storage Temperature	-40°C~ +85°C
Size(LxWxH)	Dual Port: 132.3 mm * 72 mm * 25.5 mm Single Port: 104.15 mm * 72 mm * 25.5 mm
Weight	236±10 g

#### Electrical

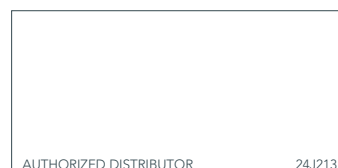
Input Voltage	9~36 V
Amps	30 mA
Power Consumption	≤27 mW



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