G802: LOW COST CURRENT OUTPUT ANGLE SENSOR (ABSOLUTE VALUE ENCODER, ANGULAR DISPLACEMENT SENSOR)



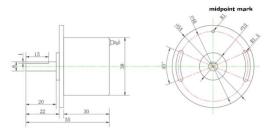
PRODUCT DESCRIPTION

G802 series magnetic angle sensor uses MEMS technology to integrate the nanomagnetic beam thin film material and the differential array magnetic sensitive element to non-contact sense changes in the magnetic field. The system integrates (microcomputer) with the current market and various protection circuits. Through DSP processing, it realizes simple intelligent control of linearity correction, temperature compensation, standardization of output signals according to the range, digital simulation, zero point setting, and multi-stage different slope settings. 0 In the 360° range, the user sets the angle to output absolute position measurement.

Parameter	Condition	G802-90	G802-180	G802-270	G802-360	unit
Measuring range		0~90	0~180	0~270	0~36 0	0
Temperature drift	-40~85°	0.02	0.02	0.02	0.02	°/°C
Resolution		0.05	0.05	0.05	0.05	0
Accuracy	-40~85°C	0.3	0.5	0.6	1	0
Long term stability	-40~85°C	0.32	0.53	0.65	1.1	0
Response time	slow/fast	600/200 μs				
Power-on start time		0.2s				
Output signal	Rload=240Ω	0~20mA, 4 20mA optional				
Noise		3mV				
	midpoint output					
	(Approach left	4~20mA output 12mA				
Midpoint offset	and right)	0~20mA output 10mA				
Average working hours	≥55000 hours/time					
Impact resistance	20000g, 0.5ms, 3rd axis					
Anti-vibration	10grms、2 ~ 2000Hz					
Operating temperature	-40~85°C					
Waterproof level	IP66 (can be customized IP67)					
	Standard 1.5 meter length, wear-resistant, oil-proof, wide temperature, shielded cable 3					
Cable	* 3 mm2					
Weight	120g (excluding packaging box)					

PRODUCT MAIN SPECIFICATION

PRODUCT DIMENSION



PRODUCT APPLICATION

- Measurement of inclination platform
- Wireless base station attitude monitoring
- Based on tilt detection
- Instrument calibration and Geological equipment inclination
 calibration monitoring
- Monitoring of bridges and Angle dams constr
- Angle control of various construction machinery
- Car safety control: steering wheel