

Model AGS Gyro Sensor



Model List	Maximum Detected Angular Velocity
AGS-R150B	± 15 deg/sec
AGS-R300B	± 30 deg/sec

Application

- Attitude control of agricultural machinery and posture control of robots
- Attitude control of automatic guided vehicles (AGV)

Features

- A roll-direction gyro sensor is built in.
- Analog voltage output corresponding to the roll direction.
- Waterproof connectors can be used.

Rating / Performance

Model	AGS-R150B	AGS-R300B
Power Voltage	12 V to 24 V DC (Operating voltage range : 8.0 V to 30 V DC)	
Power Consumption	20 mA DC or less	
Maximum Detected Angular Velocity	± 15 deg / sec	± 30 deg / sec
Steady State Output Voltage	2.5 V DC ± 0.1 V	
Angle Speed Output Sensitivity	100 ± 20 mV/deg/sec DC	50 ± 10 mV/deg/sec DC
Start-up Drift Time	30 s or less	
Load Resistance	100 kΩ or more	
Temperature Range	-20 to 70 °C (-25 to 75 °C during storage)(Without dew condensation or freezing)	
Humidity Range	35 to 95 % RH (35 to 95 % RH during storage)(Without dew condensation)	
Breakdown Voltage	1 min at 500 V AC (Between terminals and casing)	
Insulation Resistance	100 MΩ or more, at 500 V DC megger (Between terminals and casing)	
Vibration Resistance	Durability : 2 hours in each X, Y, Z direction at 10 to 55 Hz and with peak-to-peak amplitude of 1.5 mm (At power off)	
Shock Resistance	Durability : 3 times at 1000 m/s ² (approx. 100 G) in each X, Y, Z direction (At power off)	
Ingress Protection	IP67	
Case Material	ABS resin	
Cable	ø 6.1, 3-core round cord of 0.5 mm ² and insulation 1.9 mm and 1 m in length (VCTF)	
Weight	Approx. 90 g	

