



Model List	Maximum Detected Angular Velocity	Detection Inclination Range
AGW-R150B-CB	± 15 deg/sec	± 15 °
AGW-R250B-EB	± 25 deg/sec	± 25 °

Application

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

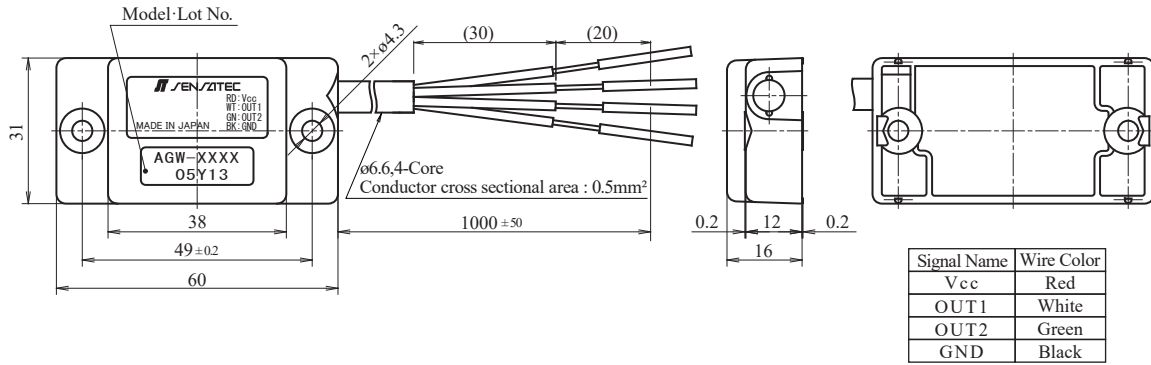
Features

- Built-in roll-direction gyro sensor and single axis tilt sensor.
- Analog voltage output corresponding to the roll direction.
- Waterproof connectors can be used.

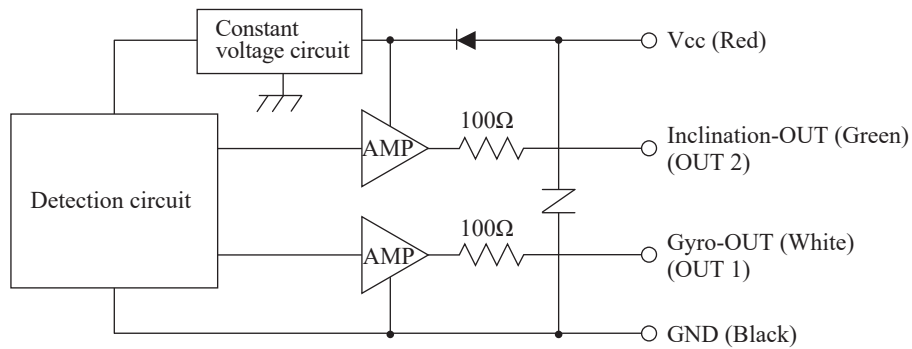
Rating / Performance

Model	AGW-R150B-CB	AGS-R250B-EB
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	± 25 deg / sec
Steady State Output Voltage	2.5 V DC ± 0.1 V	
Angle Speed Output Sensitivity	100 ± 20 mV/deg/sec DC	60 ± 12 mV/deg/sec DC
Start-up Drift Time	30 s or less	
Detection Inclination Range	± 15° (Detection width of 30°)	± 25° (Detection width of 50°)
Tilt Output	Output Voltage	2.5 V DC ± 0.1 V (At 25 °C)
	Horizontal Voltage	1.0 V to 4.0 V DC ± 0.1 V (At 12 V DC, 25 °C)
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 mounting)	
Insulation Resistance	100MΩ or more, at 500 V DC megger (Between terminals and mounting)	
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	ø6.6, 4-core round cord of 0.5 mm ² and insulation 1.9 mm and 1 m in length (VCTF)	
Weight	Approx. 90 g	

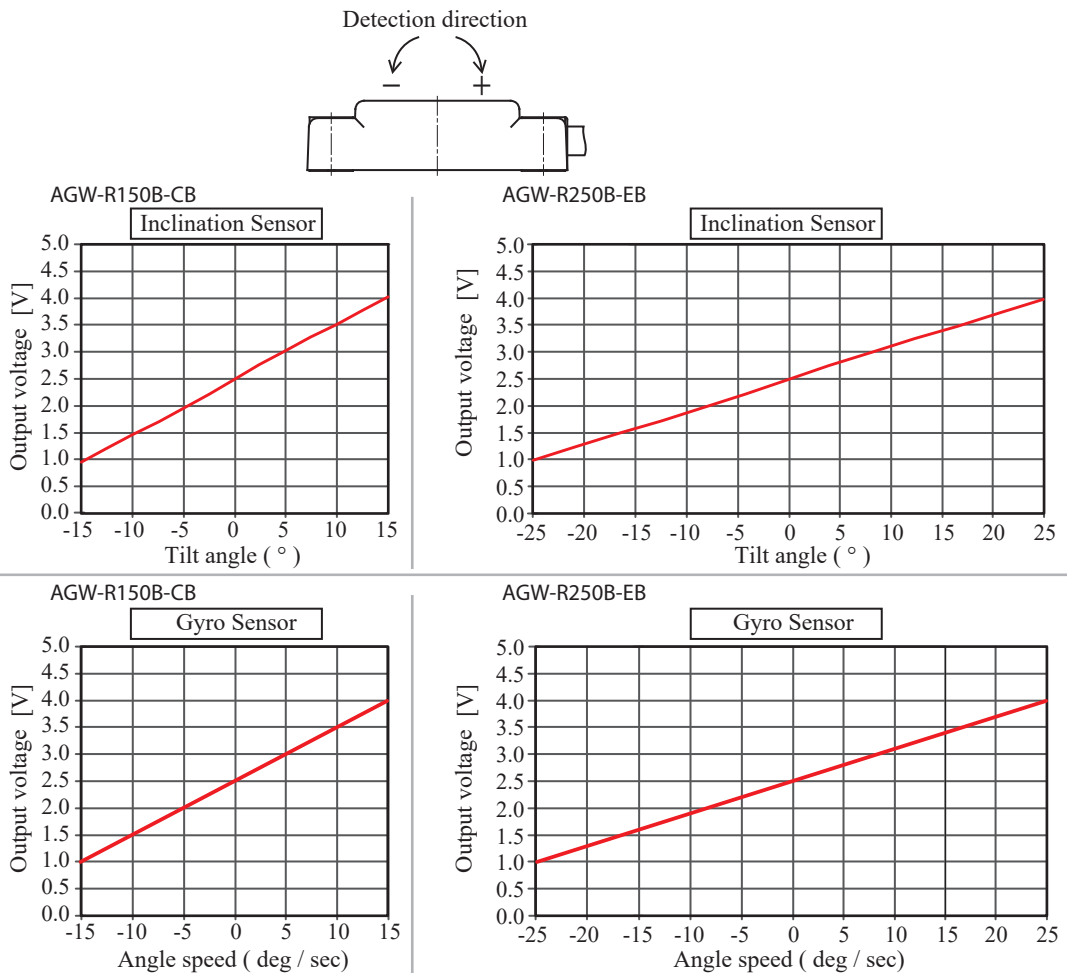
Dimensions



Output Circuit



Characteristics Graph (Typical Example)



*See Inclination sensors general usage precautions for the usage precautions.

*For a detailed specification of the other, please refer to specifications.