Strain Gage
Load Cell
Pressure Sensor
Acceleration Sensor
Torque Sensor
Displacement Sensor
Component Force Sensor
Automotive Sensor
Civil Engineering Sensor

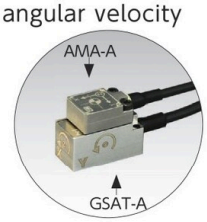
# GSAT-A-900

## Three Axis Angular Rate Gyro

### Simultaneous measurement of angular velocity in three directions

- **Rated capacity: ±15.71 rad/s**
- **Safe shock resistance: 9807 m/s²**

Compact and lightweight gyro sensors for simultaneously measuring angular velocity in three directions.
They can also be used as six-axis sensors with the AMA-A-2/5 (page 1-147) installed above.




### Specifications

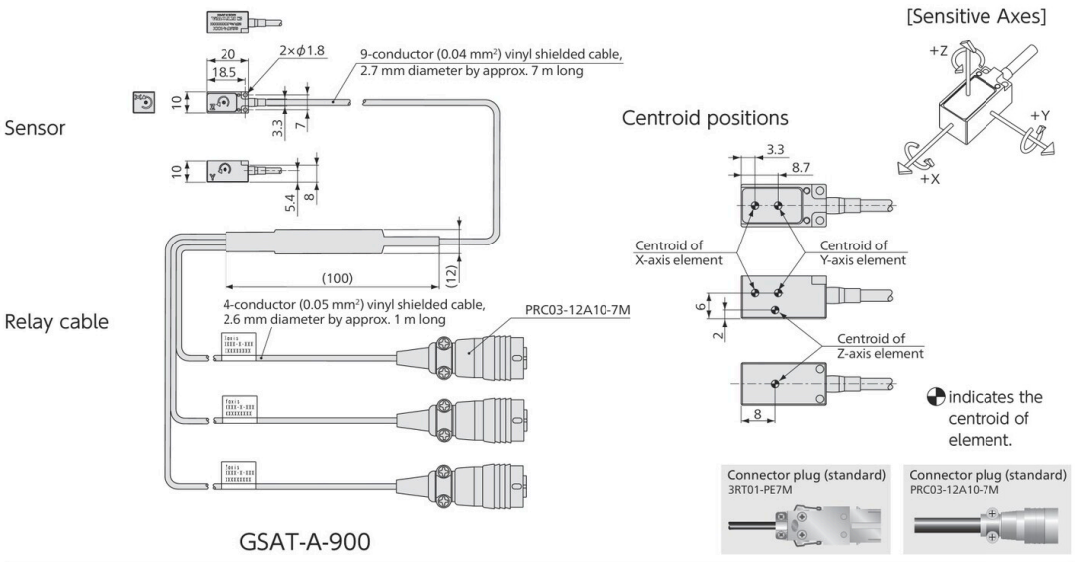
| | |
|---|---|
| **Performance** | |
| Rated Capacity | ±15.71 rad/s(±900 deg/s) |
| Nonlinearity | Within ±0.5% RO |
| Hysteresis | Within ±0.5% RO |
| Rated Output | Approx. 2.0 V |
| **Environmental Characteristics** | |
| Safe Temperature | -10℃ to 60℃ |
| Compensated Temperature | 5℃ to 40℃ |
| Temperature Effect on Zero | Within ±1.0% RO/℃ |
| **Electrical Characteristics** | |
| Safe Excitation | Dual supply: ±6.0 VDC |
| | Single supply: 12 VDC |
| Recommended Excitation | Dual supply: ±2.5 to ±5.0 VDC |
| | *With single supply, see to the instruction manual. |
| No-load Output | Within ±10% RO |
| Cable | Sensor side: 9-conductor (0.04 mm²) vinyl shielded cable, 2.7 mm diameter by approx. 7 m long |
| | Relay: 4-conductor (0.05 mm²) vinyl shielded cables, 2.6 mm diameter by approx. 1 m long, terminated with connector plugs PRC03-12A10-7M (GSAT-A-900-J: 3RT01-PE7M*) |
| | (Shield wire is not connected to the case.) |
| | *Internal Memory "TEDS IC" storing no data is mounted inside the connector plug. Do not apply excitation voltage 5 V or more between pin 4 and pin 6. If not, the "TEDS IC" may be damaged. |
| **Mechanical Properties** | |
| Safe Overloads | 1000% |
| Safe Shock Resistance | 9807 m/s²(1000 G) |
| Transverse Sensitivity | 10% RO or less |
| Weight | Approx. 10 g (Excluding cable) |
| Dimensions | See below. |

### Models

| Model | Connector |
|---|---|
| GSAT-A-900 | Circular type (PRC03-12A10-7M) |
| GSAT-A-900-J | Rectangular type (3RT01-PE7M) |

*Models with rated capacities (±2.61 rad/s, 5.24 rad/s, 47.124 rad/s) are available. Please contact us.
Note: There is no guarantee of accuracy for models with rated capacities (±2.61 rad/s, 5.24 rad/s).

### Dimensions

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