

## Angular Rate Sensor ARST-2002

- Suitable to angular rate measurement under harsh condition;
- Based on MEMS technology;
- Ready mounting positions for 3 pcs 7264C;
- Power supply with 5V;
- High response frequency 2000Hz;
- Anti-Shock >5000g.



The 3-Axis angular rate sensor ARST-2002 is based on the principle of resonator gyroscope and contains multiple vibrating beams. When the structure rotation is detected, the capacity will be changed by Coriolis force generated. Then the angular rate can be measured by capacity converting into voltage signal. ARST-2002 supplies mounting positions for 3 pcs accelerometer 7264C. The length of wear-resistant cable and Dallas ID can be required.

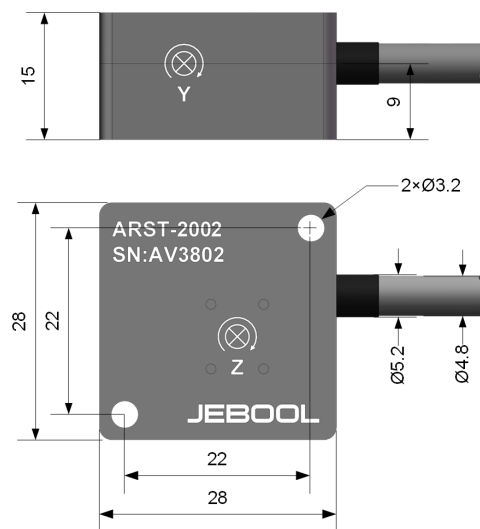
### Specification (with 5V excitation, 25°C):

| Name               | Unit  | Value          |
|--------------------|-------|----------------|
| Measure Range      | dps   | ±8000          |
| Over Range         | dps   | ±20000         |
| Linear Acc. Effect | dps/s | ±0.1 (typical) |
| Non-Linearity      | %FS   | <0.5           |
| Bandwidth          | Hz    | DC-2000        |
| Offset             | mV    | <50            |
| Warmup             | ms    | <50            |
| Excitation         | VDC   | 5              |
| Consumption        | mA    | <15            |
| Anti-Shock         | g     | 5000           |
| Insulation Res.    | MΩ    | >100           |
| Operation Temp.    | °C    | -40~95         |
| Storage Temp.      | °C    | -40~105        |
| Case Materials     | /     | Al. Alloy      |
| Weight             | grams | <50            |
| Dimension          | mm    | 28×28×15       |

Default cable length 8m;

Connector and ID as required.

### Dimension:



### Wire Assignment:

|        |                |
|--------|----------------|
| Red    | Excitation+    |
| Black  | Excitation-    |
| White  | Signal-        |
| Green  | Signal+        |
| Shield | Connector Case |

(X, Y, Z direction reference cable labels)