

## G-2876

**Stored Energy Two-Axis Free Gyroscope  
360°, one axis measuring.**

Two-axis free gyroscope actuated by spring stored energy. Operates for at least 50 seconds. Specially designed to meet the need for short range, high acceleration missions. The G-2876 has two potentiometers, one on each gimbal. Inner and outer gimbal have freedom of 360°. A remote electrical pulse is used to actuate a pressure squib for uncaging the spring. Performance and mounting possibilities particularly suitable for TOW type missiles, man-portable anti-armor / anti-tank, as well as air-to-surface missiles and many other applications.



## Specifications

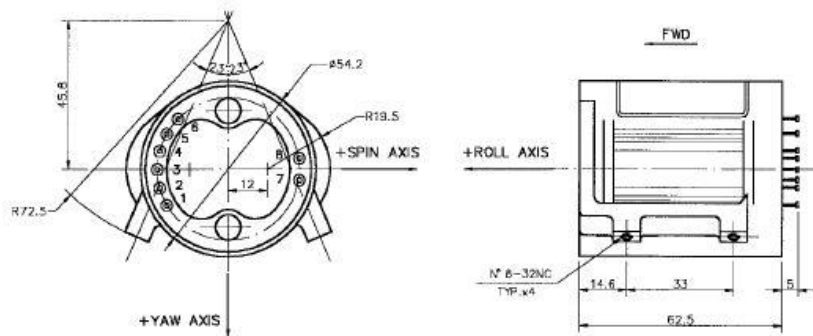
| Max Drift (Scorsby /Random vibration)             |              |       |              |       |
|---|--------------|-------|--------------|-------|
| Time  | Model A      |       | Model B      |       |
|   | Outer        | Inner | Outer        | Inner |
| 20 sec  | 1.0°         | 1.4 ° | 1.4 °        | 2.4 ° |
| 30 sec  | 1.5 °        | 2.1 ° | 2.1 °        | 3.7 ° |
| 40 sec  | 2.0 °        | 2.8 ° | 2.8 °        | 4.8 ° |
| 50 sec  | 2.5 °        | 3.5 ° | 3.5 °        | 6.0 ° |
| Potentiometer Pick off (Wire Wound or Conductive) |              |       |              |       |
|   | Outer        |       | Inner        |       |
| Active Range                                      | ±60°         |       | ±40°         |       |
| Resistance  | 7.2 kOhm ±5% |       | 4.8 kOhm ±5% |       |
| Linearity   | <0.5%        |       | <0.5%        |       |

## G-2876

### Specifications

| Uncaging & Ready Time |                           |
|-----------------------|---------------------------|
| Uncage Current        | 2.5 Amp. Min.             |
| Ready Time            | 150 msec                  |
| Environmental         |                           |
| Temperature           | -40° to +85°C             |
| Shock                 | 400 G, 18 msec / all axes |
| Random Vibration      |                           |
| Non-Operating         | 15.0 GRMS                 |
| Operational           | 8.2 GRMS                  |
| Weight                |                           |
| 300 gm                |                           |

### Drawing



*All dimensions are in mm*

### For Additional Information

To learn more about the G-2876 Free Gyroscope

Or other MTC products,

Contact MTC on **+972 4 998 7772** or email [marketing@mtcind.com](mailto:marketing@mtcind.com)