

G-4085

Miniature, lightweight, one axis measuring, 2-axis Free Gyro, actuated by spring stored energy. Operates for at least 120* seconds. Specially designed to meet the need for short & medium range high-acceleration missions. The G-4085 has a single potentiometer pick-off with two wipers for measuring roll angles; a second wiper on the pot. provides the option of measuring angle during continuous rotation (up to 360°). Inner and outer gimbals have freedom of 360°. A remote electrical pulse is used to actuate a pressure squib for uncaging the spring (more in printable version).



Specifications

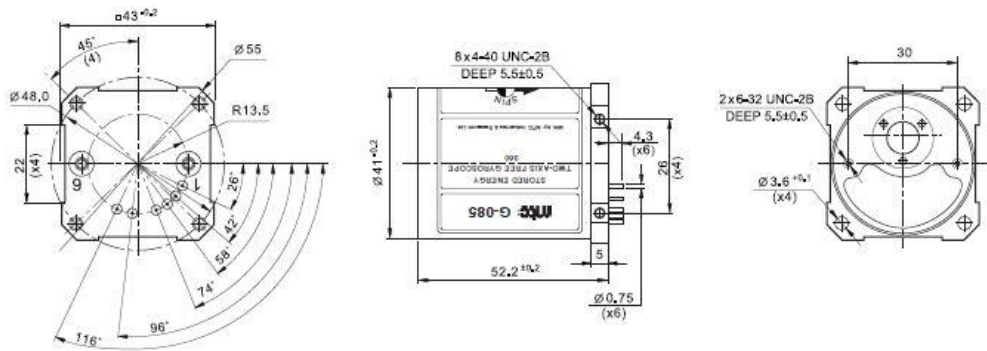
Output Mode	Angle
Angle Measurement Range	360°
Active Rotating Measure Range	<360° / sec
Max. Drift (Scorsby/Random Vibration/Continuous Rotation 360°/sec)*	
Time	Angle
30 sec	4°
45 sec	6°
< 150 msec	Ready Time
Conductive Potentiometer Pickoff	
Active Range	±170°
Resistance	5.0 kOhm ±5%
Linearity	< 1.0%
Power Rating	0.5 watt

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Squib Parameters	
Uncage Current	3.0 Amp. min.
Resistance	0.16 -0.20 Ohm
Environmental	
Temperature	-40° to +85°C
Mechanical Shock	250 G, 50 msec / all axes
(operational)	160 G, 150 msec / all axes
Random Vibration	
Non-Operating	4.5 GRMS
Operational	0.8 GRMS
Weight	
170 gm	

Drawing



All dimensions are in mm

For Additional Information

To learn more about the G-4085 Free Gyroscope

Or other MTC products,

Contact MTC on +972 4 998 7772 or email marketing@mtcind.com