

Isolated Relay Series MEMS Inclinometer

The 2GIG Isolated Relay pitch and roll sensor is engineered to work for all applications. Our internal software provides unlimited programming capabilities that allow us to provide one of the easiest to use sensors on the market.



ENGINEERED TO PERFORM
AT EVERY LEVEL

ADAPTIVE SENSING TECHNOLOGY

| STABILITY |

Combination of a 3-axis Accelerometer and 3-axis Gyroscope provides excellent stability under extreme environments

| FILTER |

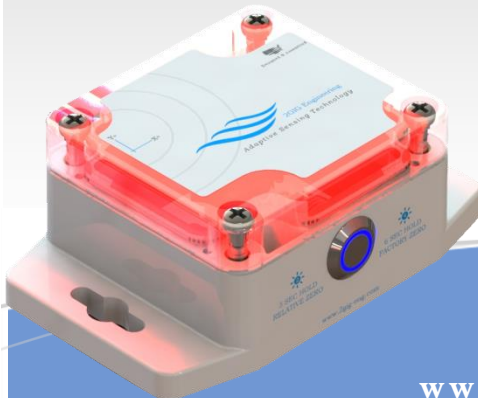
Custom filter using an advanced Kalman-based sensor fusion algorithm

| RELIABILITY |

Polycarbonate enclosure with an epoxy encapsulated PCB allow this sensor to withstand extremes

| ACCURACY |

Excellent dynamic accuracy for challenging conditions.



>Our isolated relay tilt sensor is the number one solution for any AC or DC switching application. Our dry contact tilt sensor contains embedded high-power relays (Omron G5Q) which can be used in a multitude of tilt switching applications, compatible with AC and DC switching. The isolated relay inclinometer is designed to be the perfect fit-and-forget solution or drop-in replacement.

- 0.1° Accuracy
- Single Axis Trip Range up to $\pm 180^\circ$ (User specified)
- Dual Axis Trip Range up to $\pm 90^\circ$ (User specified)
- Horizontal or Vertical Mount Options
- Relative Zeroing Button (stores in memory)
- Easy Installation, No moving parts or maintenance
- User-adjustable via USB software or CANBUS

>Rugged and robust design built with materials chosen for their ability to survive the harshest of environments and operating conditions. Featuring an anti-fungal housing with a protection class rating of IP67, these inclinometers are guaranteed to work with the highest accuracy in any industrial condition.

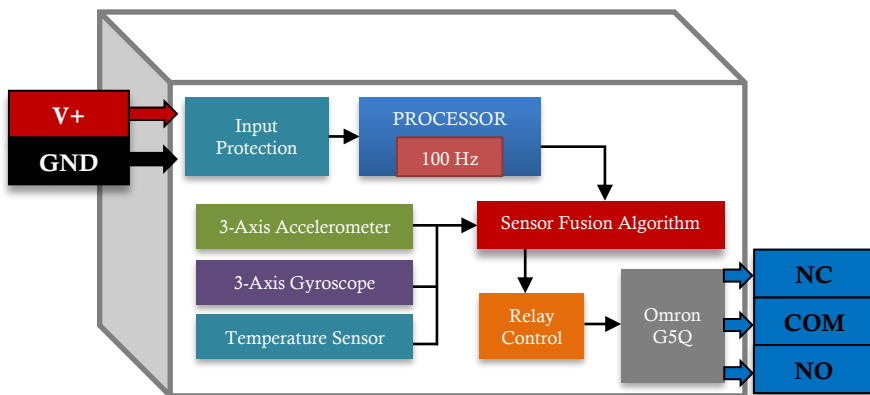
>Flexible lead times and top notch customer service allows us to put a 2GIG inclinometer in your hands when you need it. Our rapid communication and “on demand” supply method eliminates long lead times and ensures every customer is treated as the highest priority.

www.2gig-eng.com

| 194 Main Road, Abbot, Maine USA 04406 | 207.876.4800



Isolated Relay Series MEMS Inclinometer



LEVELING THE WORLD

The Isolated Relay Inclinometer has a wide array of uses. Our team of engineers can work with you in order to create the sensor that fits your application. Whether its legacy units, drop-in replacements, or new applications, 2GIG can provide the correct settings for your application.

AERIAL LIFTS



CONSTRUCTION



Input Protection Circuitry

- Reverse Polarity Protected
- Overvoltage Protected up to 60VDC
- Input circuit will resist surges up to 500V and 250A (IEC 61000-4-5:2014)

Relay Control

When the sensor is tilted past its programmed trip angle, the relay control will activate. This relay control will power up the relay coil when activated, causing the isolated relay to switch.

Omron G5Q

These are low profile, high powered isolated (dry contact) relays which can handle DC loads up to 5 Amps and AC loads up to 10 Amps.

MARINE



AUTOMATION



AGRICULTURE

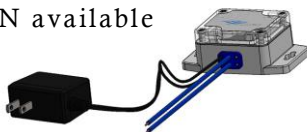


INDUSTRIAL



Customize your inclinometer

- Marine-Grade Stainless or Aluminum enclosures
- Wiring or connector options
- CANBUS – J1939 or CANOPEN available
- AC Power adapter option



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