

# ViPRO Inertial Sensor



**Inertia Sensor** is an electrical device which is able to measure vehicle environmental temperature, accelerated speed during driving. It collects Mobile DVR environment temperature through internal temperature sensor and trigger temperature alarm when temperature is higher than the threshold configured. If 3G is connected this alarm can be reported to CMS (Central Monitoring System). Based on the measured accelerated speed, it is able to simulate the driving condition such as car crashing, leaning, movement and vibration etc. Likewise, once the value is beyond the valued configured on Mobile DVR GUI, the Mobile DVR system will trigger alarm and this alarm can be reported to CMS as well if 3G is applied.

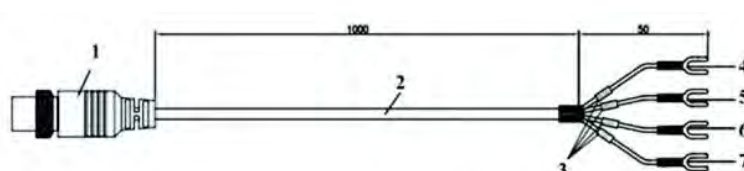
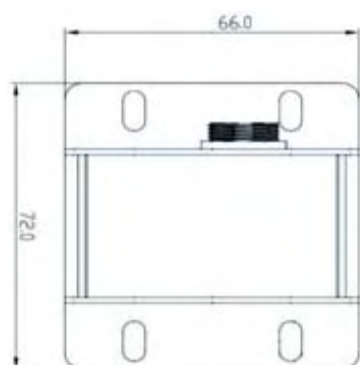
## Key Features

- X, Y, Z total 3 dimensions measurement
- Rapid response, instantly acquire accelerated speed
- High sensitivity
- High reliability
- Excellent deviation stability
- Low power consumption
- Rugged design, solid structure, advanced shockproof

## Technical Specifications

<b>Product series</b>	Inertial Sensor (G-force Sensor)	
<b>Acceleration</b>	Direction	X,Y,Z 3 axis
	Measuring Range	4/12 (G) optional
	Sensitivity	308mV/g OR 83.6mV/g
	Reaction Time	0.5 millisecond
<b>Temperature Sensor</b>	Temperature Range	-40°C ~ 110°C ± (0.30+0.006 t )°C
	Reaction Time	< 250 millisecond
<b>Communication</b>	RS-485	
<b>Transmission period</b>	100ms	
<b>Power Supply</b>	5V	
<b>Working Temperature</b>	-30°C ~ 70°C	
<b>Wire Length</b>	1050mm	
<b>Weight</b>	78g	
<b>Dimension</b>	72mm*66mm*28mm	

## Dimension and Definition



- |                            |                      |
|----------------------------|----------------------|
| 1. Injection molding parts | 5. 485A (White Line) |
| 2. Cable                   | 6. GND (Black line)  |
| 3. Tag                     | 7. +5V (Red Line)    |
| 4. 485B (Green Line)       |                      |