

Specifications

Output

- 0 to 5 V square wave, differential or single ended
- 62.1 pulses per second for every kilometer per hour of speed measured (100 pulses per second for every mph of speed measured)

Speed Range

- 0.8 to 480 km/h
- 0.5 to 300 mph

Power Supply

- 10.5 to 16.5 VDC, 2.4 W

Accuracy

Total Unadjusted Error: $\pm 0.34\%$ at 1mph*

* Error increased 0.0023% for every 1 mph increase in speed. For example, at 2 mph, the error increases to $\pm 0.3423\%$. At 60 mph, the accuracy is $\pm 0.48\%$. Overall accuracy of the speed measurement is also influenced by external factors which may include sensor alignment, vibration, etc.

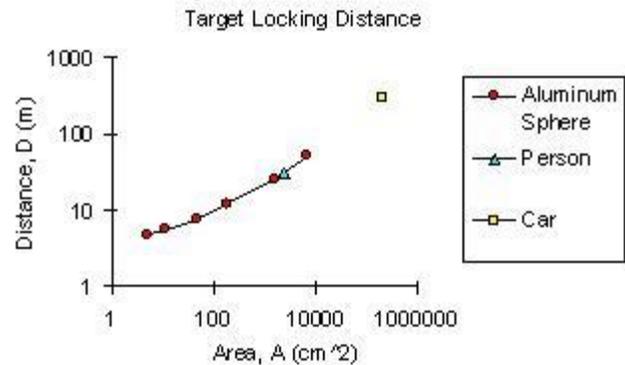
Sensor Response

- Update Period: 0.01 seconds
- Locking Latency: 0.02 seconds
- Unlocking Latency: 0.05 seconds
- Sensor Time Constant: 0.025 seconds

Enclosure

- Weather Resistant

Maximum Target Distance



Maximum target distance is determined by the size and shape of the target. The sensor can see an average size car at about 300 meters (1,000 feet).

Microwave Characteristics

- Frequency: Ka Band - 35.5 ± 0.1 GHz
- Beam Divergence Angle: 6° from center
- Average RF Power: 0.02 W maximum
- Effective Radiated Power: 0.98 W

Note: The sensor's transmitted signal is regulated under FCC regulations Part 90, subpart F. Please contact GMH Engineering for registration details.

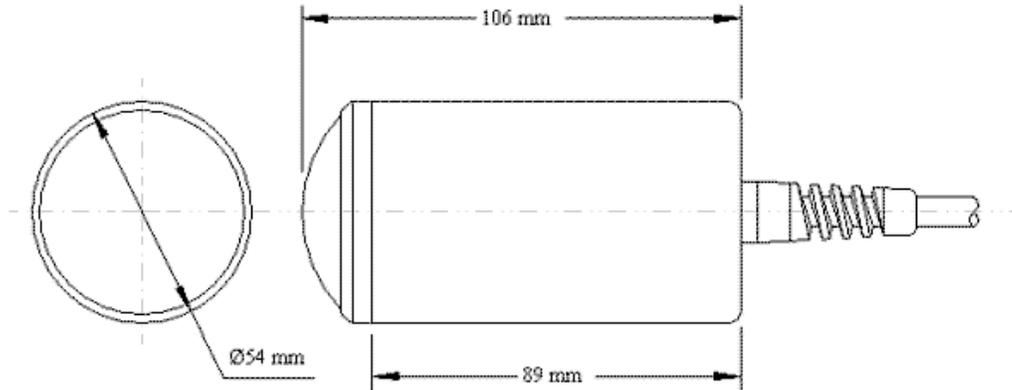
Temperature Range

- -17 to 60° C
- 0 to 140° F

Weight

- 230g (0.5 lbs.)

Dimensions



GMH Engineering
336 Mountain Way Dr, Orem, UT 84058
(801) 225-8970 www.gmheng.com

© 2011, GMH Engineering. All rights reserved. Specifications are subject to change without notice. Information furnished by GMH Engineering is believed to be accurate and reliable. User assumes full responsibility for the use of any or all information presented herein.