This is the LIDAR-Lite v3, a compact optical distance measurement sensor from Garmin™. When space and weight requirements are tight, the LIDAR-Lite v3 soars. The LIDAR-Lite v3 is the ideal solution for drone, robot or unmanned vehicle applications.

This easy-to-use 40-meter laser-based optical ranging sensor has all the core features that made the LIDAR-Lite v2 so popular. Small in form and light in weight with low power consumption of less than 130mA during an acquisition. And it's user-configurable so you can adjust between accuracy, operating range and measurement time.

Each LIDAR-Lite v3 features an edge-emitting, 905nm (1.3 watts), single-stripe laser transmitter, 4 m Radian x 2 m Radian beam divergence, and an optical aperture of 12.5mm. The third version of the LIDAR-Lite still operates at 5V DC with a current consumption rate of <100mA at continuous operation. On top of everything else, the LIDAR-Lite is user-configurable, allowing adjustment between accuracy, operating range and measurement time. It can be interfaced via I^2C or PWM with the included 200mm accessory cable.

Note: CLASS 1 LASER PRODUCT CLASSIFIED EN/IEC 60825-1 2014. This product is in conformity with performance standards for laser products under 21 CFR 1040, except with respect to those characteristics authorized by Variance Number FDA-2016-V-2943 effective September 27, 2016

Features

- Range: 0-40m Laser Emitter
- Accuracy: +/- 2.5cm at distances greater than 1m
- Power: 4.75--5V DC; 6V Max
- Current Consumption: 105mA idle; 130mA continuous
- Rep Rate: 1--500Hz
- Laser Wave Length/Peak Power: 905nm/1.3 watts
- Beam Divergence: 8m Radian
- Optical Aperture: 12.5mm
- Interface: I^2C or PWM
- 20 x 48 x 40 mm (0.8 x 1.9 x 1.6 inches)