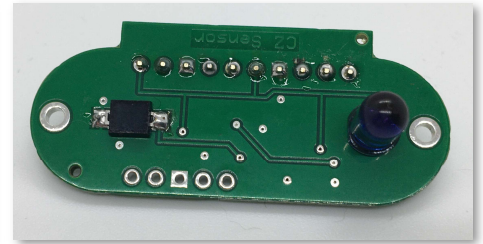
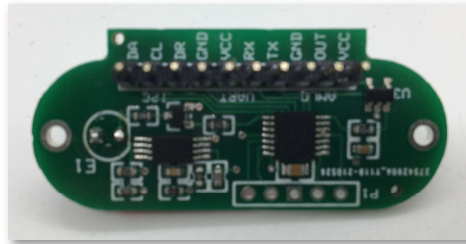


# Sexy Sensors by Laser Stuff Inc.

## Introducing the cZ Long-Range IR Tri-link Sensor™

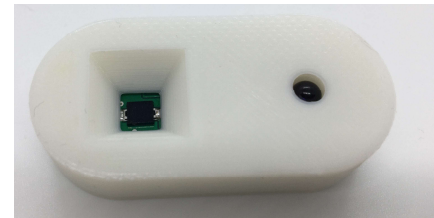
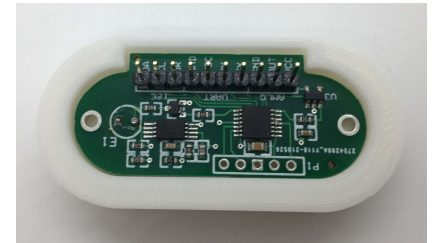


### Features Include:

- Range measurement of an object in the presence of the sensor
- Coded “spread-spectrum” transmission of IR signals for low-noise operation
- High resolution Z coordinate measurement
- Analog output, UART, and I2C serial data links (Tri-link)
- Does not interfere with other of the same sensor, when used side-by-side in close-proximity
- Up to 2-meter range of object detection, and within -20 to +20 deg beam.
- Proximity and lateral displacement object detection
- Operates through plate glass (up to half-inch glass thickness)
- Emitter is the only TH assembled part for operation through glass or IR transparent plastic
- Option to increase sensor range, linearity, and accuracy
- IR noise detection (caused by external IR sources such as sunlight, CFL lamps, and IR emitters).
- Peripheral proximity sensing (for early response or “wake-up” and detect mode)

The “code” Z Sensor (cZ Sensor) is based on recently patented technology developed by Laser Stuff Inc. This is a new technology designed to use coded “spread-spectrum” transmissions schemes to separate the sensor transmission of IR from the environment. This allows more accurate detection of proximity and better algorithms for object detection and range measurement.

The cZ proximity sensor is low-cost and designed with standard IR electronic components. The simplicity of the design allows for sensor products to be developed and innovated with new and future components, and not relying on modularized IR components (specialized IR receivers for example) that may become obsolete in the future. The accuracy of ranging is sub-millimeter and the resistance to ambient light makes it possible to measure proximity in different light conditions.



Laser Stuff Inc. provides 3D wireless laser target receiver and sensor technology. Our unique low power, low-cost technology delivers a simple, fast, and accurate digital and analog sensor response to your proximity measurement needs. Based in Waterloo, Canada, Laser Stuff is a new technology company with experience in sensor technology and intellectual property in various technology verticals.

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