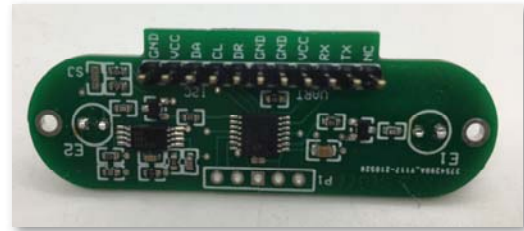


# Sexy Sensors by Laser Stuff Inc.

## Introducing the cZX Long-Range IR Sensor™

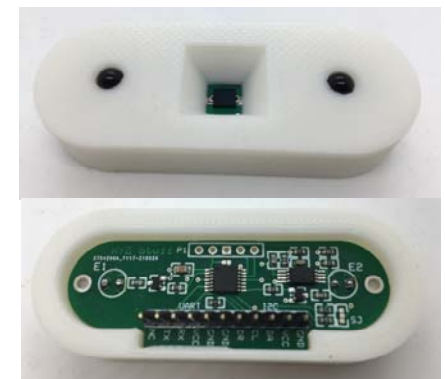
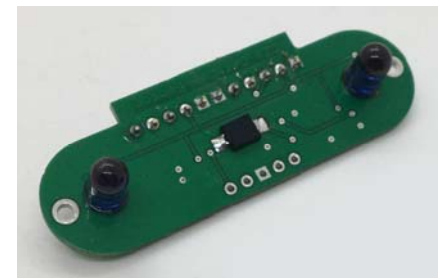


### Features Include:

- X and Z coordinate measurement of an object in the presence of the sensor
- Coded "spread-spectrum" transmission of IR signals for low-noise operation
- High resolution Z and X coordinate measurement
- UART (Serial) and I2C data link
- Does not interfere with other of the same sensor, when used side-by-side in close-proximity
- Up to 2m 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 TH mounted for long-range (includes a cover for store-front window, for example)
- Speed and direction of swipe gestures and objects passing by the sensor
- Gesture detection (up to 7 gestures) and combination gestures detected
- 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" ZX Sensor (cZX Sensor) is based on recently patented technology developed by Laser Stuff Inc. This sensor designed to use coded or "spread-spectrum" transmission schemes to separate the sensor IR signal from the environment. This allows more accurate detection of proximity and better algorithms for gesture detection.

The cZX 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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