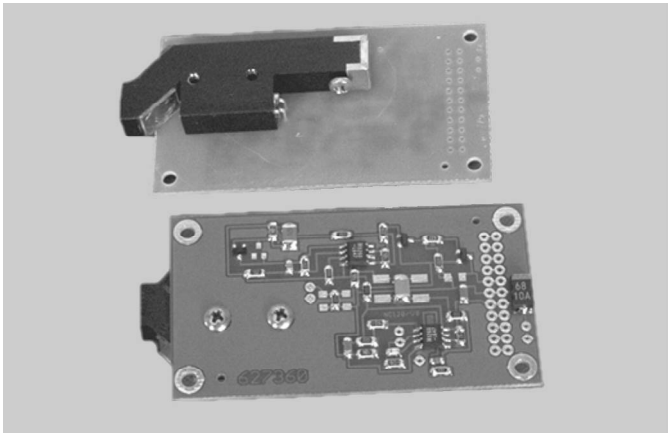
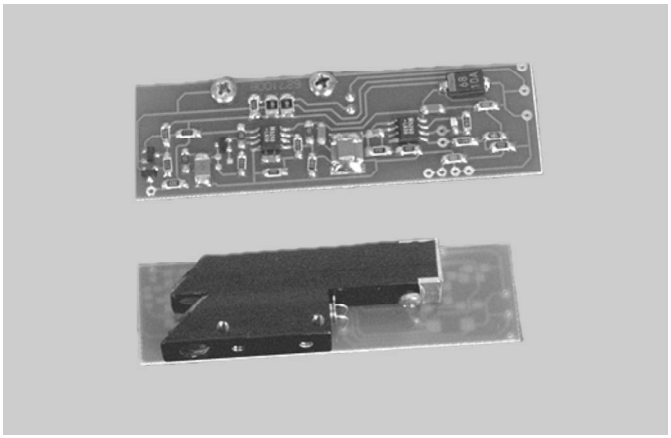




FEATURES:

- Designed For OEM Use
- Digital Output
- Reads High and Medium Density Barcodes
- Visible or Infrared LED Light Source
- Elliptical viewing area enhances performance
- Requires Single 5 VDC Power Supply

DESCRIPTION:

Custom Sensors offers two standard optical assemblies that are designed to be incorporated into OEM equipment. They differ mainly in the direction of the optical path. Both units consist of an optical assembly mounted on a printed circuit board containing the digitizing electronics. Both types can be furnished with either visible red or infrared LED light sources and have an elliptical viewing area. Both units have digital outputs that can be configured as TTL or Open Collector.

TYPICAL APPLICATIONS:

The units are designed to read high and medium density barcodes in conjunction with an external barcode decoder. The visible red light source is used in most applications. It can read codes where the bars are printed in black or other colors, except red. Infrared units are used in high visible ambient light conditions, in photographic applications where film may be fogged by visible light, or in situations where infrared transparent films are placed over the barcode. The units however, are not limited to barcode reading applications. They can also be used in photoelectric applications for detection of small parts or index marks. In this case the output would be used directly.

SPECIFICATIONS:

Electrical

Power:	+5VDC±5% @ 120 mA. MAX. Noise and Ripple <50mV P-P
Output:	TTL logic level or Open Collector to switch up to 30VDC

Optical

Viewing Area:	elliptical spot 0.01" X 0.04" long axis parallel to bars. (See Dimensional Drawing)
Operating Range:	0.35" to 0.85" from front surface
Scan Speed:	6 to 60 inches per second using a code symbol with 0.010" nominal narrow bar or space width.

Light Sources

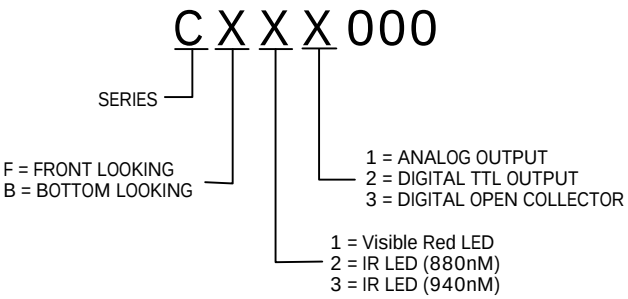
Visible Models:	Peak Output 660 nM ±2%
Infrared Models:	Peak Output 940 nM ±2% or Peak Output 880 nM ±2%

Environmental

Temperature:	Operating: 0° to 50°C Storage: -40° to 50°C

PART NUMBERS:

The part numbers always consist of seven charecters. The chart below shows the significance of each digit.



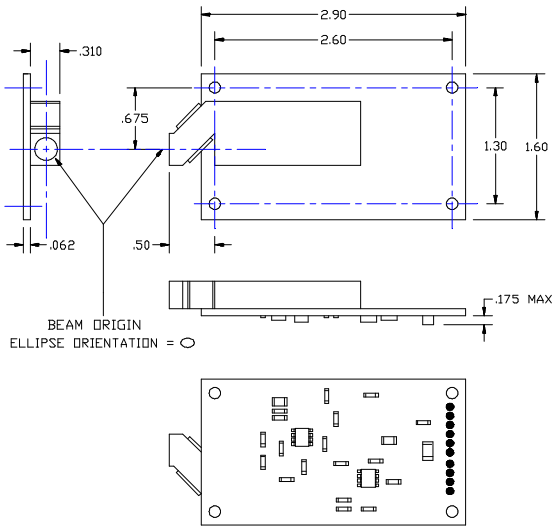
VARIATIONS:

Common variations include: ellipse rotated 90°, analog output and wire and connectors per customer specification. Custom Sensors manufacturers many optics modules to customer specification. Call us for a quote on custom configurations.

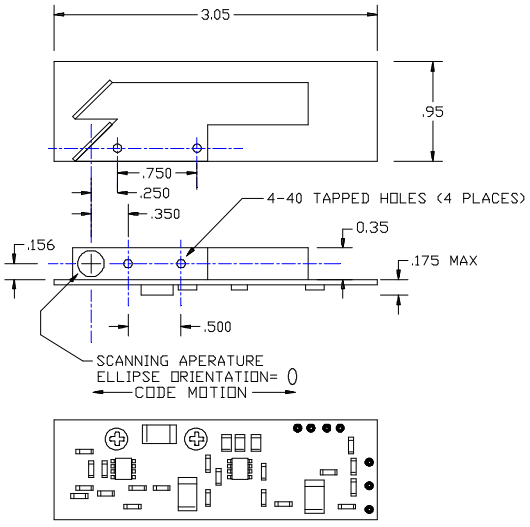
DIMENSIONS:

(All Dimensions in inches)

FRONT LOOKING MODEL



BOTTOM LOOKING MODEL



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