OPTICS ASSEMBLIES — C Series

FEATURES:

- Designed For Card Reader Applications
- 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:

These two optics modules were designed for OEM's that wish to incorporate a barcode card reader into their product. They provide the required optics and signal conditioning. The two models differ only in their mechanical configuration. Both consist of an optical assembly mounted on a printed circuit board containing the digitizing electronics. They can be furnished with either visible red or infrared LED light sources and have an elliptical viewing area. Outputs can be configured as TTL or Open Collector.

TYPICAL APPLICATIONS:

Equipment manufactures that wish to integrate a barcode card reader into their product will want to consider using these CC Series units to perform the optical and signal conditioning functions. The units are designed to read high and medium density barcodes. 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 for security reasons.The output is compatible with most barcode decoders, including the Custom Sensors DA1000 Series.

SPECIFICATIONS:

Electrical

Power:	+5VDC±5% @ 30ma. (visible) or 60ma. (Infrared) Noise and Ripple <50mV P-P
Output:	TTL logic level (Bar = +) or Open Collector.

Optical

Viewing Area:	elliptical spot 0.01" X 0.08" long axis parallel to bars. (See Dimensional Drawing)
Operating Range:	0.25" ±0.125" 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 617 nM ±2%
Infrared Models:	Peak Output 880 nM ±2%

Environmental

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

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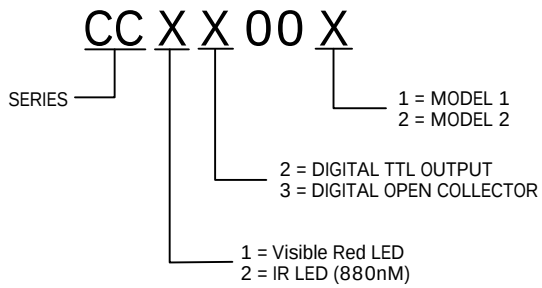
PART NUMBERS:

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



VARIATIONS:

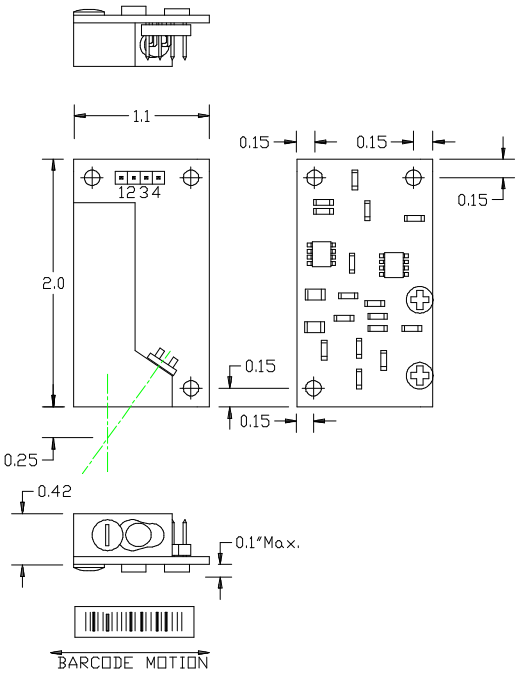
Common variations include: ellipse rotated 90°, analog output and wire and connectors per customer specification. Custom Sensors manufacturers many optics modules to customer specification. Call us for a quote on custom configurations.

CONNECTIONS:

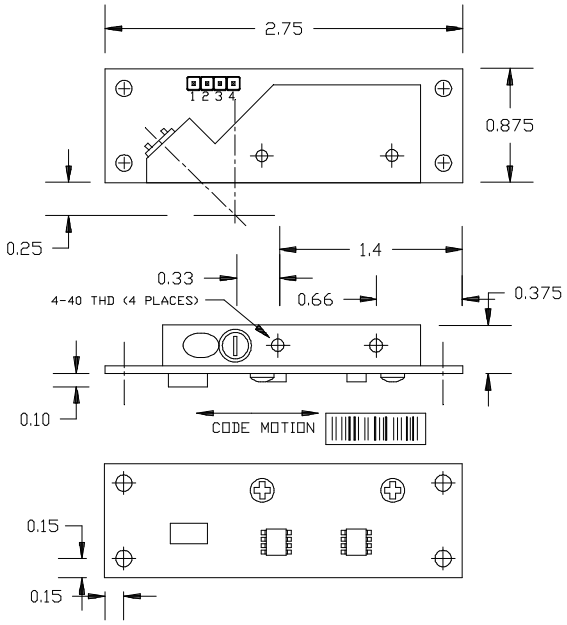
1 - Ground
2 - +5VDC
3 - GND
4 - Output

DIMENSIONS:

(All Dimensions in inches)



MODEL 1



MODEL 2

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