CONFIGURATION:

The following characteristics are configurable by the user using a serial terminal or barcode menu.

Barcodes

Code Types:	Code 39 (normal or extended), Interleaved 2 of 5, UPC/EAN/JAN, Codabar, Code 128, Code 11, MSI Code.
Label Length:	to 32 characters.
Check Character:	For Code 39, Code 11 and Interleaved 2 of 5.
Stop/Start Char.:	Code 39, Codabar
UPC Decoding:	Enable UPC only, UPC-E expansion and supplemental codes.

Communications:

Type:	RS-232 or RS-422 (data only)
Baud Rate:	150 to 19,200 baud
Parity:	Mark, Space, Even or Odd
Stop Bits:	1 or 2
Flow Control:	RTS/CTS Hardware Protocol XON/XOFF Software Protocol
Character Delay:	A delay between the transmission of each character, up to 150 mS., is user configurable
Messages:	Several messages can be transmitted with the barcode data. They are: Header, trailer, Scanner Address and No-read message.

INPUT/OUTPUT CONNECTIONS:

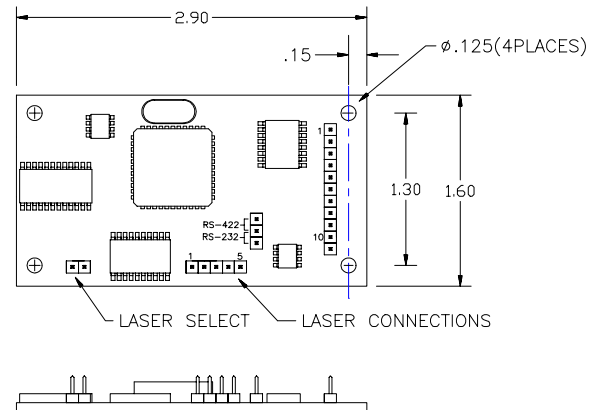|	
Pin 1:	RS-232 - CTS
Pin 2:	RS-232 - RTS
Pin 3:	RS-232 - RxD
Pin 4:	RS-232 - TxD
Pin 5:	Ground
Pin 6:	+5VDC
Pin 7:	Digital Input Signal
Pin 8:	RS-422 - RxD(-)
Pin 9:	RS-422 - RxD(+)
Pin 10:	RS-422 - TxD(-)
Pin 11:	RS-422 - TxD(+)

VARIATIONS:

Product variations are available on special order. Common variations include: TTL level output and units factory configured to customer specification.

MODEL NUMBERS:

DA1000 - RS-232/RS-422 Output

## DIMENSIONS:

(All Dimensions In Inches)

CSI

CUSTOM SENSORS, INC.

30 York Street
Auburn, N.Y. 13021
315-252-3741

FEATURES:

- Operates From Single 5 Volt Supply
- Accepts Moving Beam Laser or Wand Input
- RS-232 or RS-422 Communications
- Reads Most Common Barcodes
- All Major Parameters are User Configurable
- Configuration Stored in EEPROM
- Driver for Good Read Indicator
- Surface Mount Construction
- 2.9" X 1.6" Circuit Board
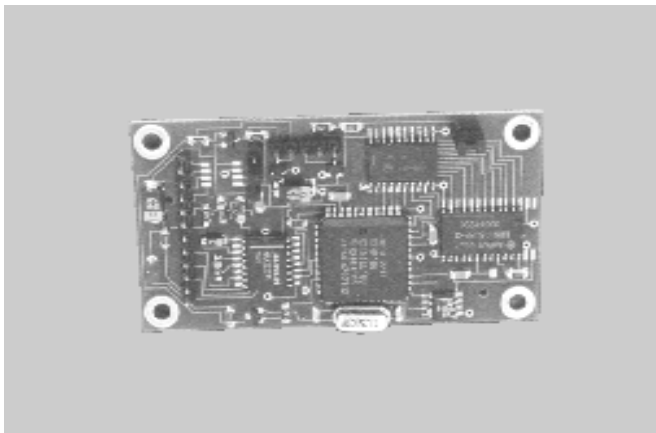
DESCRIPTION:

The DA1000 Series Barcode Decoder module is designed for OEM applications. The complete circuit is contained on a 2.9" X 1.6" circuit board and requires only a single positive five volt power supply. The unit is designed to accept an input from a digitized barcode sensor. The sensor may be a wand, fixed beam scanner, or moving beam laser. The output is RS-232 with RTS/CTS hardware handshaking or RS-422 (Data Only). The module decodes seven standard barcode symbologies and automatically identifies the type of code being scanned if more than one barcode type has been configured. All major operating parameters of the decoder can be configured using barcode menus or a serial data terminal. Once configured, this information is stored in nonvolatile EEPROM memory. The module can be configured to buffer both input and output data. Circuitry is furnished to drive a Good Read indicator LED. Surface mount construction accounts for the decoders small size.

TYPICAL APPLICATIONS:

The DA1000 Series Barcode Decoder module is designed for OEM applications where barcode reading capability needs to be implemented as part of the overall product design. The decoder module saves the designer the task of programming a dedicated microcomputer to handle the barcode decoding and communications function. The decoder module can be configured for the desired decoding and communications parameters. The configuration is then saved permanently in EEPROM. The module reads barcodes that are commonly used in both industrial and retail sales applications.

SPECIFICATIONS:

Electrical

Power:	+5VDC±5% @ 60 mA. MAX. Noise and Ripple < 50mV P-P
Input:	TTL level signal; pulse duration between 70 mS and 50uSec.
Communications:	RS-232, baud rate, stop bits and parity user configurable. RTS/CTS hardware handshaking. RS-422 is "Data Only" (no handshakes).

Environmental

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

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