BARCODE SLOT READER — BC Series

FEATURES:

- Integral Decoder
- Visible Red or Infrared Models
- Operates From Single 5 Volt Supply
- RS-232 or RS-422 Communications
- User Configurable
- Elliptical Viewing Area
- Reads Most Common Barcodes

DESCRIPTION:

The BC Series of Barcode Slot Readers are used to read codes on badges, ID Cards or similar documents. The unit reads and decodes most barcode symbologies that are in common use today. It can be furnished with either a visible red or infrared light source. Visible red units will read codes printed in either black, color (except red) or non-carbon based inks. Infrared units will read codes printed in black carbon based inks and also codes with infrared transparent security overlays. Two communications protocols are provided for transmitting data to a host computer or other intelligent peripheral device. RS-232 is provided for short range serial communications. RS-422 is provided for longer communications distances. The scanner is contained in a black anodized aluminum housing. A single 5 VDC Supply voltage is required for operation.

TYPICAL APPLICATIONS:

The BC Series Barcode Slot Readers are designed for applications such as time and attendance, access control and factory floor data collection systems. Barcode Slot Readers can be used in place of magnetic card readers in many applications. The cost of printing a barcoded ID card is less than the cost of preparing a card with a magnetic stripe. This is a significant factor in applications where a relatively small quantity of cards are used. The RS-422 protocol facilitates installation at distances of up to 4000 ft. from the host device.

SPECIFICATIONS:

Electrical

Power:	+5VDC±5%@ 150 mA. Noise and Ripple < 50mV P-P

Optical

Viewing Area:	Elliptical spot 0.01" X 0.04"
Scan Speed:	6 to 60 inches/second using a code symbol with a 0.01" nominal narrow bar or space width.

Light Sources:

Visible Models:	Peak Output at 617 nM ±2%
Infrared Models:	Peak Output at 940 nM ±2% or Peak Output at 880 nm ±2%

Indicators:

Red Led:	Blinks on Good Read.

Communications:

Type:	Serial ASCII at RS-232 or RS-422 levels. Baud rate, stop bits, parity and character delay are user configurable.

CONFIGURATION:

The following characteristics are configurable by the user using a serial terminal, or computer configured as a terminal.

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, Code11 and Interleaved 2 of 5.
Stop/Start Char.:	Code 39, Codabar
UPC Decoding:	Enable UPC only, UPC-E expansion and supplemental codes.

Communications:

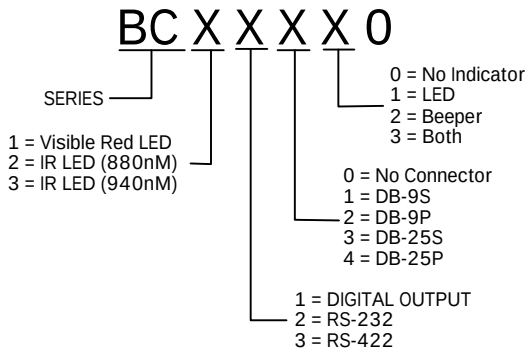
Baud Rate:	150 to 19,200 baud
Parity:	Mark, Space, Even or Odd
Stop Bits:	1 or 2
Flow Control:	RTS/CTS Hardware Protocol XON/XOFF Software Protocol
Character Delay:	A delay between the transmission of each character, up to 250 mS., is user configurable
Messages:	Several messages can be transmitted with the barcode data. They are: Header, Trailer, Scanner Address, Bar code Type and No-read message.

SCANNER WIRING:

PIN	RS-232 Output	RS-422 Output
1	Shield	Shield
2	TxD [WHT]	RxD(+) [BLU]
3	RxD [BLU]	RxD(-) [GRN]
4		TxD(+) [WHT]
5	GND [BLK]	GND [BLK]
6		TxD(-) [BRN]
7	CTS [GRN]	
8	RTS [BRN]	
9	+5VDC [RED]	+5VDC [RED]

Note: Wire Colors apply to models without connectors.

PART NUMBERS:

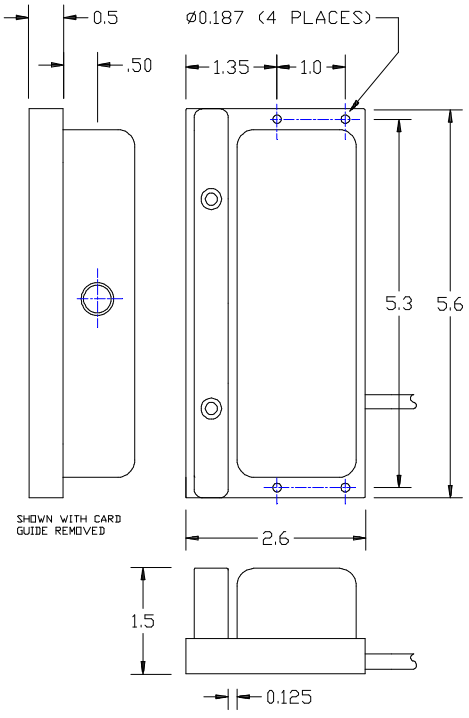


VARIATIONS:

Common variations include cable type and length, connector type and variation in card slot width.

DIMENSIONS:

(All Dimensions in Inches)



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