

Bar Code Reader

1.0 Features and Functions

The ibc® bar code reader is designed to output 26 Bit Wiegand data to the Keri Systems' PXL-500W Tiger Controller (Wiegand capable). An internal beeper provides feedback when a card is read and Red and Green LEDs provide feedback to indicate if access has been granted or denied. A mounting plate is provided for standard mounting to a wall.

This document is only intended as an aid for installation. For detailed information on the bar code reader, consult the J-Series User's Guide available from ibc® at Phone: (860) 659-9660 or Web Page: <http://interbar.com>.

2.0 Specifications

Unit Dimensions - Figure 1

H = 2.4" x W = 4.6" x D = 1.4"
(6.10 cm x 11.68 cm x 3.56 cm)

Mounting Plate Dimensions - Figure 2

H = 2.75" x W = 5.5" x D = 0.10"
(6.98 cm x 13.97 cm x 0.25 cm)

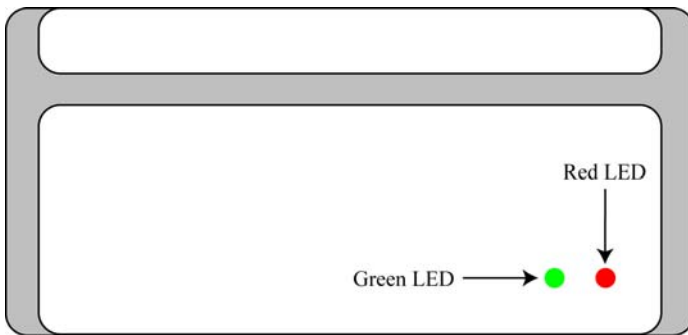


Figure 1: The ibc® Bar Code Reader

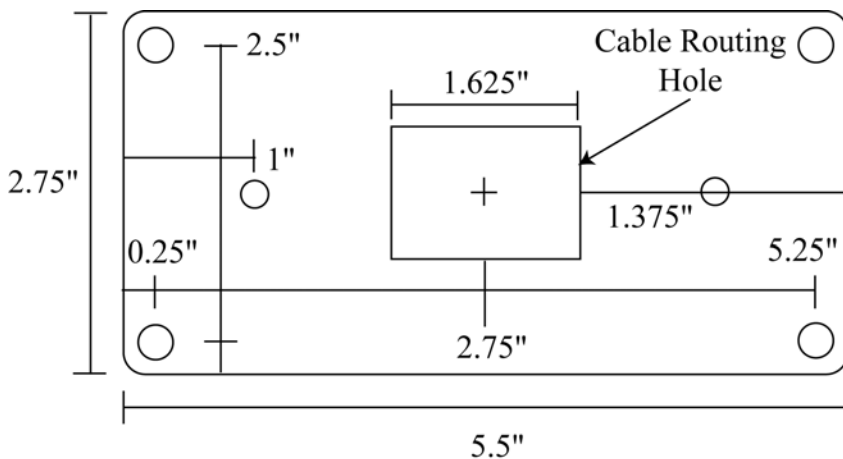


Figure 2: Reader Mounting Plate



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2.1 Power

Voltage - 8 to 15 VDC

Current - 100 mA maximum

NOTE: On the PXL-500W controller, set the JP4 jumper on pins 1 and 2 for 12 VDC power necessary for this reader.

2.2 Cable

Cable runs less than 500 feet can use AWG 18 wire. Longer cable runs require a heavier gauge of wire to ensure there is not excessive voltage drop.

2.3 Wiegand Data

The standard Wiegand specification supports only numeric data; all bar coded data presented to the reader must be numeric.

2.4 5 or 7 Digit KRONOS' Format Cards

KRONOS' format cards previously only passed 5 digits, but will now also pass 7 digits. Depending on the cards being used, the reader will need to be set to accept the desired format.



- For use with KRONOS format cards that pass 5 digits, swipe the Keri 003 (%UP1) side of the card.
- For use with KRONOS format cards that pass 7 digits, swipe the Keri 007 (%UP0) side of the card. This is the default value.

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3.0 Connections

Connect the bar code reader cable to the PXL-250W controller according to the table below.

Wire Color	Description	TB5/TB-6 – Pin . . .
Green	Data 0	Pin 1
–	not used	Pin 2
Red	reader power	Pin 3
Blue	reader ground	Pin 4
Orange	green LED	Pin 5
Yellow	red LED	Pin 6
White	Data 1	Pin 7

4.0 Card Enrollment

Cards can only be enrolled one-at-a-time by swiping the card through the reader. Block card enrollment is not supported.

5.0 LEDs

In standard operation, waiting for a card to be presented, both the Red and Green LEDs are on.

- Following a valid card presentation - the Green LED stays on and the Red LED turns off for several seconds then returns to on.
- Following an invalid card presentation - the Red LED stays on and the Green LED flashes off once then returns to on.



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6.0 Troubleshooting an Installation

Problem	Probable Cause	Corrective Action
The Bar Code reader is not working.	The reader is not connected to the controller.	<ul style="list-style-type: none"> • Verify the 7-pin connector to which the reader is wired is plugged into the controller.
	The reader is miswired.	<ul style="list-style-type: none"> • Verify the reader wiring is correctly made to the PXL-250W per the above instructions. • Verify all wire splices (if applicable) have been made correctly.
	Wrong power voltage applied.	<ul style="list-style-type: none"> • Verify the power at the reader is 12 VDC. If the power at the reader is less than 12 VDC, the LED will be on, but the reader will not read cards properly.