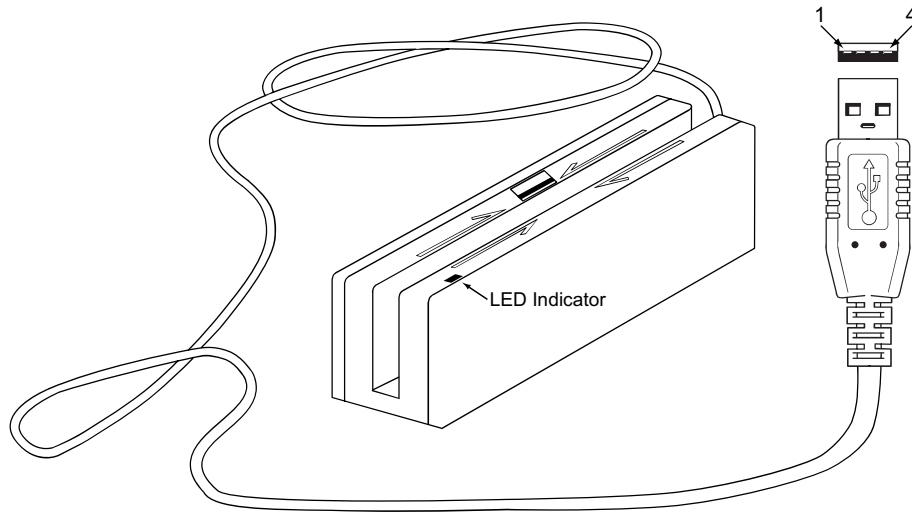


## SECTION 2. INSTALLATION

This section describes the cable connection, the Windows Plug and Play Setup, and the physical mounting of the unit.

### USB CONNECTION

Connect the USB cable to a USB port on the host. The Reader, LED Indicator, and pin numbers for the 4-pin connector are shown in Figure 2-1.



**Figure 2-1. Reader Cable and Connector**

Pin numbers and signal descriptions for the cable shown in the illustration are listed in Table 2-1.

**Table 2-1. 4-Pin Connector**

Pin Number	Signal	Cable Color
1	VBUS	Red
2	- Data	White
3	+Data	Green
4	Ground	Black

## **WINDOWS PLUG AND PLAY SETUP**

On hosts with the Windows operating system, the first time the device is plugged into a specific USB port, Windows will pop up a dialog box, which will guide you through the process of installing a device driver for the device. After this process is completed once, Windows will no longer request this process as long as the device is plugged into the same USB port. The device driver that Windows will install for this device is the driver used for HID keyboard devices and it is part of the Windows operating system. When the dialog box pops up, follow the instructions given in the dialog box. Sometimes Windows will find all the files it needs. Other times Windows will need to know the location of the files it needs. If Windows prompts for the file locations, insert the CD that was used to install Windows on your PC and point Windows to the root directory of the CD. Windows should find all the files it needs there.

## **MOUNTING**

The Reader may be mounted with screws or fastening tape as described below.

### *Caution*

*The Reader should be mounted such that the bottom (mounting side) is not exposed to the user. This is because the mounting side of the reader may be susceptible to electrostatic discharge.*

1. The Reader can be mounted on a surface in various ways:
  - By two screws through the surface attached to the bottom of the unit and running the cable on the top of the surface
  - By two screws through the surface attached to the bottom of the unit and by drilling a hole in the surface for the cable and running the cable through the hole
  - By attaching the unit to the surface with fastening tape and running the cable on the top of the surface.

### *Note*

*The two mounting inserts are 3mm diameter, 0.5mm pitch, 6.4mm deep. The length of the screws used depends on the mounting surface thickness and the thickness of washers (if used).*

The mounting dimensions are shown in Figure 2-2. Determine the method of mounting required.





## **SECTION 3. OPERATION**

This section describes the LED Indicator and Card Read.

### **LED INDICATOR**

The LED indicator will be either off, red, or green. When the device is not powered, the LED will be off. When the device is first plugged in, the LED will be red. As soon as the device is plugged in, the host will try to enumerate the device. Once the device is enumerated the LED will turn green indicating that the device is ready for use. When a card is being swiped, the LED will turn off temporarily until the swipe is completed. If there are no errors after decoding the card data then the LED will turn green. If there are any errors after decoding the card data, the LED will turn red for approximately two seconds to indicate that an error occurred and then turn green. Anytime the host puts the device into suspend mode, the LED will turn off. Once the host takes the device out of suspend mode, the LED will return to the state it was in prior to entering suspend mode.

### **CARD READ**

A card may be swiped through the Reader slot when the LED is green.

When using a USB KB Swipe Reader (with a single head), the magnetic stripe must face toward the front (the side with the LED) and may be swiped in either direction.

When using a USB KB SureSwipe reader (with dual heads), the magnetic stripe can face toward the front or the back, and may be swiped in either direction.

If there is data encoded on the card, the reader will attempt to decode the data and then send the results to the host as if the data was being typed on a keyboard. After the results are sent to the host, the device will be ready to read the next card.