OmniCounter PRO

Introduction

The Traf-Sys/Walker Wireless OmniCounter Pro Infrared People Counters provide a simple and elegant, yet effective way to track foot traffic through a given area or entrance. The counter consists of two parts, a transmitter and receiver, and determines traffic based using infrared beam breaks; upon beam break, the counter will increment and counts may be viewed on the LCD utilizing a magnet (Page 6).

Table of Contents

Features and Benefits

- Infrared beam-interrupt 24-bit People Counter
- Battery operated (fully wireless)
- Can operate in side-firing or front-firing mode
- Integrated 6 digit LCD display indicating total counts
- Up to 16ft infrared transmission range
- Monitors infrared beam interruptions and duration of beam interruptions
- User replaceable batteries (3.6 volt lithium)
- Flush mounting bracket (included)

OmniCounter PRO

Mounting and Orientation

One key to your OmniCounter People Counters operating properly and efficiently is their mounting orientation and height; normal mounting height is between 36 and 52 inches. Please see the illustrations below:
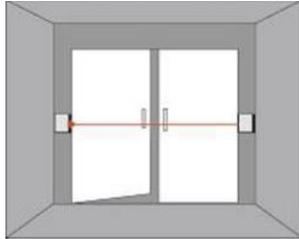
Figure 1 shows a typical side-firing (door mounted) installation.

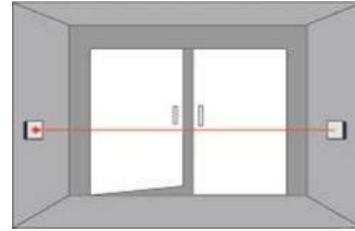Figure 2 shows a typical front-firing (wall mounted) installation.

Figure 1

Figure 2

Proper Orientation/Alignment is required for the counters to function properly. Located on both the transmitter and receiver is a dimple that is used to allow the correct orientation. The dimples are also used to indicate which side of the enclosure the IR receiver or IR transmitter is located when using the counter in Side-Firing Mode..
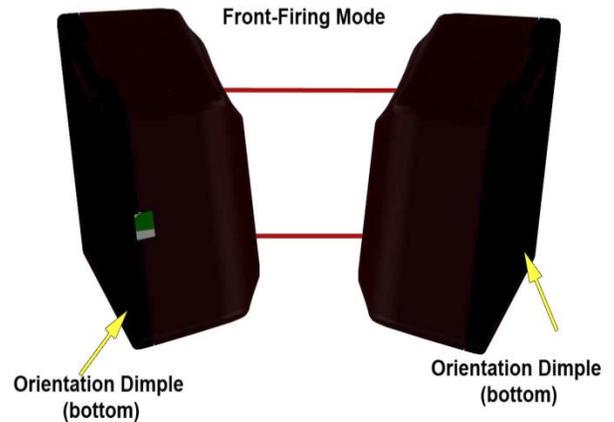
Side Firing Mode

Orientation Dimples

In Side-Firing Mode, the counters need to be mounted so that the dimples are oriented to the center
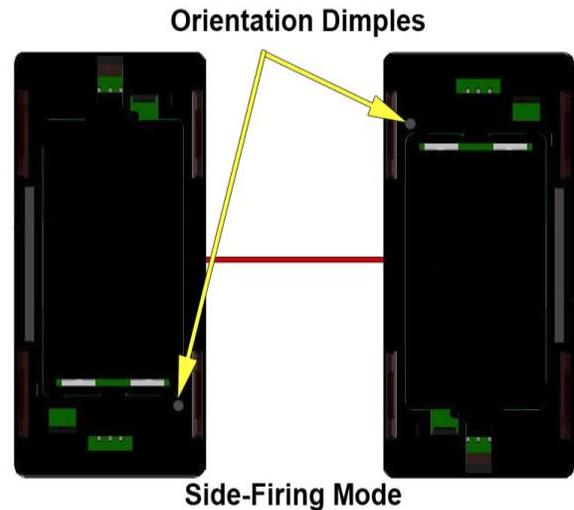
Side-Firing Mode
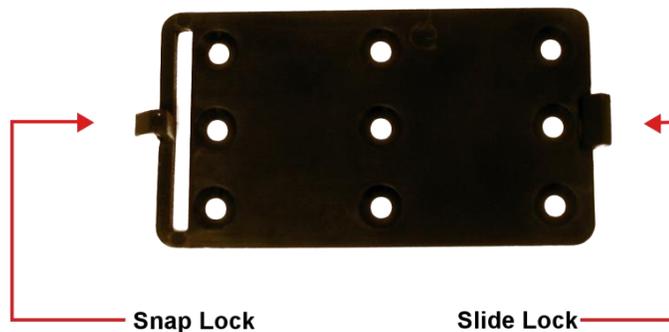
OmniCounter PRO

Front Firing Mode

When used in Front-Firing Mode, the counter needs to be installed with either both dimples at the top or both dimples at the bottom.

Mounting Bracket

You should decide what mode you are going to use your counters in before hanging the mounting brackets. You will want to mount each mounting bracket (shown below) with snap lock facing up for front firing mode to allow for proper orientation and sensor operation. For side firing the bracket will have one snap lock facing up and the other facing down to allow for proper orientation and sensor operation. Both of the brackets will have the snap lock facing the inside of the door to allow for proper orientation and sensor operation.

After mounting the brackets, your Omni Counter sensors simply slide onto the Slide lock and then snap securely onto the Snap lock. The following guide will help illustrate the process.

| Figure 1 | Figure 2 | Figure 3 |

Figure 1: Grasp the sensor firmly and line it up with the Slide lock.

Figure 2: Slide the sensor onto the Slide lock.

Figure 3: Begin to push the sensor towards the Snap lock until it snaps into place.

To Remove Sensor from bracket

To release the sensor from the mounting bracket, depress the Snap lock with the included screwdriver and gently pull the top of the sensor away from the mounting bracket. See Figure 4 below for the location of the Snap lock release.

Figure 4

OmniCounter PRO

Configuration and Powering On

Configuring the IR Receiver

To turn the unit on or select the mode of operation, use a paperclip to press and hold the configuration button. The LCD display will sequence through the available operation modes of the SIDE, set FRNT, set, or PWR OFF. To select the desired mode, release the button when the display indicates the mode.


IR Receiver
Configuration Button

To put the counter into Alignment Mode, momentarily press and release the configuration button on the IR Receiver. If the IR Receiver and IR Transmitter are properly aligned, then the LED will be lit on the IR Receiver. You can exit Alignment Mode by pressing the Configuration Button again or allow it to exit Alignment Mode on its own (after 60 seconds). This button is also used to send a service packet. This will be discussed later in the manual.

To display the counts on the LCD

1.) Momentarily press the configuration button or 2.) Swipe a magnet across the IR Receiver where the reed switch is located (opposite side of the LCD display). To reset the counts to zero, hold a magnet next to the reed switch for approximately 5 seconds.

Configuring the IR Transmitter

Side Mode   Front Mode

Configuration Button   Configuration Button
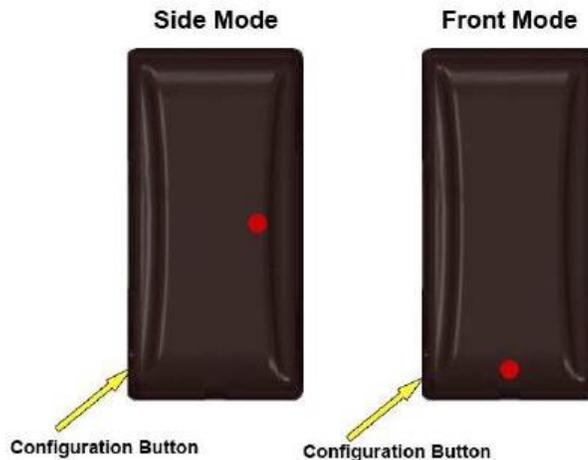
To select the mode of operation, use a paperclip to press and hold the configuration button. The visible LED's will provide feedback to the available modes (Side Low Power, Side High Power, Front Low Power, Front High Power. Low Power Mode is indicated by a solid LED and High Power Mode is indicated by a flashing LED.

Troubleshooting

Below are solutions to common problems you may experience with the OmniCounter Wireless Infrared People Counters.

My sensors are not counting.

The sensors are not generating counts when the infrared beam is being broken.

- Ensure the power is on for both sensors.
- Ensure that your sensors' firing designation switch is set properly to be front-firing or side-firing and ensure that the sensors are mounted to match that designation.
- Your batteries may need replaced; see Appendix A for battery replacement information.

- If your counters are not counting and you have a "Blocked" status on your LCD display this means that the transmitter and receiver are unable to see each other.
  - o 1. Ensure that there is nothing between the sensors.
  - o 2. The two sides are not in the same firing mode.
  - o 3. Ensure that the alignment of the two sides is good.

I do not see any counts on my LCD screen.

The onboard screen displaying counts is blank.

- This is by design; sending a service packet or utilizing the magnet as described on Page 6 will cause the count total to become visible. This feature was implemented to conserve battery life.

OmniCounter PRO

Appendix A: Battery Replacement

When it comes time to replace the batteries in your sensors, please follow this quick guide. You may purchase your batteries directly from Traf-Sys/Walker Wireless; these sensors require 3.6 volt lithium batteries.

1. Remove the battery door on both of your sensors by applying pressure downwards in the direction the arrow is pointing (towards the battery door as show below in Figure 11).
2. Using your fingernails or the included screwdriver, gently pry and remove the batteries.
3. Following the proper battery polarity designations (printed in white on the circuit board under the batteries) replace the batteries with new 3.6 volt lithium batteries.

    INCORRECT INSTALLATION OF BATTERIES COULD CAUSE DAMAGE

4. Turn both units on and remount them on their brackets.
5. Test your sensors by walking through the entrance or otherwise breaking the beam path.
6. If your sensors successfully generated counts, congratulations, you have successfully replaced the batteries in your sensors. If you were unable to generate counters, please refer to the Troubleshooting section of this document then contact Traf-Sys/Walker Wireless technical support if you require further assistance.

Figure 11