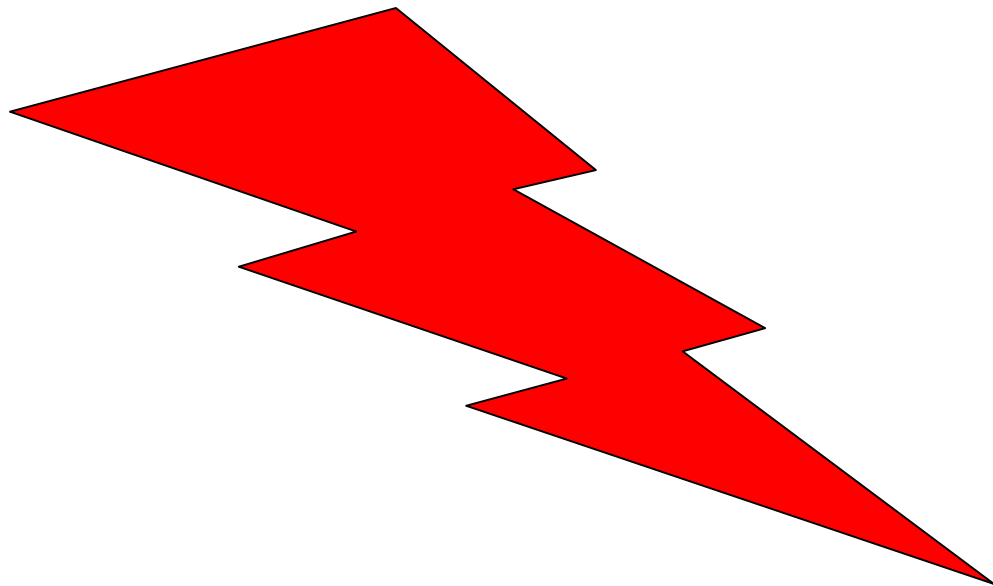




User Manual

Model: SmartSensor™ 105
10.525 GHz Microwave Traffic Sensor



FCC COMPLIANCE

THIS EQUIPMENT COMPLIES WITH PART 15 OF THE FCC RULES. ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Proprietary

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Wavetronix products are covered under U.S. and foreign patents, issued and pending.

Specifications change privileges reserved.

SmartSensor™ is a register trademark of Wavetronix, LLC.

Technical Support and Product Information

www.wavetronix.com

1-800-764-0277

Wavetronix, LLC, Provo, Utah, 84604

Contents

Unpacking

The smart sensor packaging should include the following items:

1. SmartSensor 105 Detector
2. Mounting Plate
3. (5) Mounting Screws
4. Sensor Cable (Customer Specific Length)
5. User Manual
6. CD with Software

If any of these items are missing record the serial number located on the side of the sensor and contact the Wavetronix Support at ???. Additional products may be purchased through your distributor, and software and firmware may be downloaded using you Wavetronix customer ID number for free at www.wavetronix.com .

Unit Identification

Installing

Physical installation of the SmartSensor

- Choose a location for the sensor to be mounted. The sensor can be mounted on a vertical or horizontal placed pole or on a flat vertical surface (i.e. wall, billboard, etc.). It is recommended that the mounting location be a distance 15-22.5 ft from the nearest point of interest and mounted 20-30 ft above road level as illustrated in figure 1.
- There are 2 available brackets to choose from. Secure the mounting bracket to the selected surface facing the desired detection area.
 - 1) Adjustable pole mounting bracket. This bracket can be used on vertical or horizontal poles and requires three bands to secure it to a pole. The bracket has 360° of vertical/horizontal adjustability and 70° of tilt adjustability (figure 2a).
 - 2) Adjustable flat mounting bracket. This bracket can be used on flat vertical surfaces and requires 4 bolts to secure it to the surface. The bracket has 70° of tilt adjustability (figure 2b).
- Secure the mounting plate to the bracket with 2 tapered screws (figure 3).
- Secure the SmartSensor to the mounting plate or bracket with five ¼ - 20 screws (figure 3).
- Aim the front of sensor at the center of the detection area (figure 1 & 3).
- Connect the power/communication cable to the SmartSensor and attach the modem antenna if applicable.



Sensor cable is must be at least 2 m long or the FCC license is void!

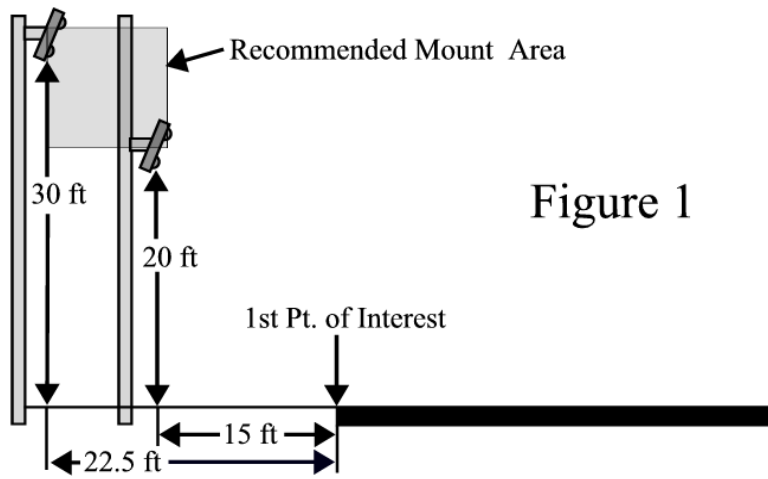


Figure 1

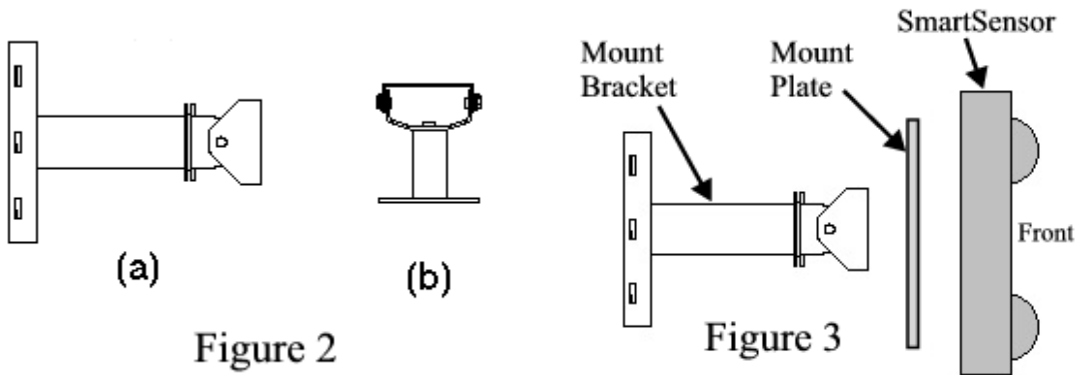


Figure 2

Figure 3

Software Configuration

Tracking Installations

Trouble Shooting

Upgrading Firmware

Specifications

Warranty

Notes

Wavetronix Customer ID Number: _____

Serial Number: _____

Date Installed: _____ Installation Site: _____

Part Number: XXXXXXXXXX BARCODE