



User Manual

Instructions for Installing Door sensor (REV6)

1. Overview

The ArrowTrack Door Sensor is a RF device.
Based on RF 433 module.

2. Hardware Interface Description

2.1 Main features of the EZ-RA

Feature	Implementation
Light sensor	Integrated Digital Light Sensor with interrupt INTERSIL ISL29035
Incorporates Telit LE50 RF Frequency bands	The Telit module handles all RF processing RF – 433MHz (Frequency 433.2 MHz)
Antenna	RF: Rainsun
Battery	3.6 V AA Battery: Tadiran 5903 (none rechargeable)

3. Mechanical Characteristics

3.1 General mechanical description

Weight	50g
Dimensions (max) L x W x H	65mm x 38mm x 20mm
Case material	Nylon 70% + 30% Glass- Fabrics

3.2 Environmental requirements

Operating temperature range	-40°C to +80°C
Humidity	5% - 85%



3.3 Protection class

IP40 Avoid exposing the Terminal to liquid or moisture.

3.4 RoHS compliance

All hardware components are fully compliant with the EU RoHS and WEEE Directives.

Tools Required:

- | | |
|--------------------------------|---|
| 1) Standard hand tools | 6) Isopropyl alcohol/Water mixture
(Rubbing Alcohol) |
| 2) Clean cloth | 7) Putty knife |
| 3) Scotch tape | 8) Hot air Gun |
| 4) Marker | |
| 5) Approved silicone or Mastic | |

This instruction should be read through completely before proceeding.

Parts required per assembly:

ITEM	COMPONENT NUMBER	COMPONENT NAME	QTY
1	FL-ARS-RLOO09	SENSOR, DOOR	1

Procedure:

DOOR SENSOR PAIRING

Telematics device and door sensor must be paired and verified before installation.

1. Record module serial number and new door sensor serial number.
2. Call Arrowspot at 972-52-662-4862 to begin pairing process.
3. Next steps will be given by Arrowspot for completing the pairing process.
4. Once pairing is done follow below step for Door sensor installation.

DOOR SENSOR INSTALLATION

5. Using putty knife remove the caulking around the door sensor. Use caution to prevent scratch to door.
6. Remove the old door sensor from the door. Use caution to prevent damage to the sensor.
7. Clean and dry area where sensor to be added using IPA.



8. Mark reference lines to indicate sensor locations at the top right corner of the container back door. Lines can be marked directly on the door using the template shown.



28 cm (11 inches)

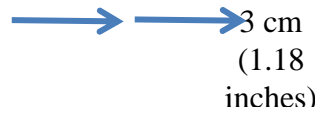
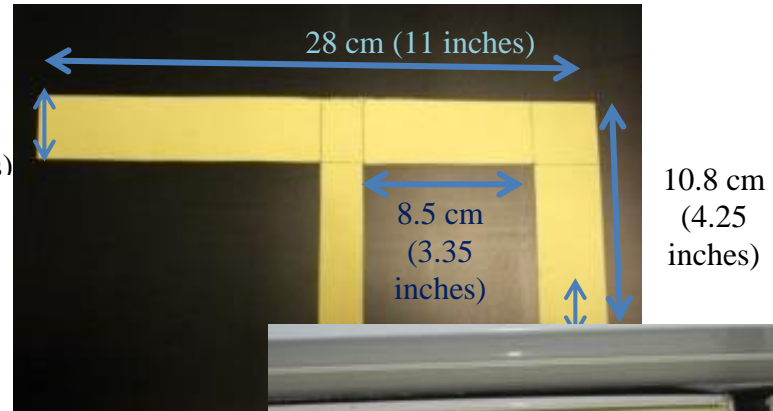


Figure A: Reference lines

Figure B: Template for marking reference lines



9. If using the template, tape the template to the top-right corner on the back of the container's door, as shown on the picture.



10. Suggested ambient and surface temperature of door and door sensor to be above 50°F (10°C) for better adhesion, follow step 6 for installation. For colder ambient temperature below 50°F (10°C) recommended use of hot air gun. Surface temperature should not exceed 122°F (50°C).

11. Remove red protective backing from the door sensor, ensuring the serial number on the door sensor is visible at the bottom, press sensor firmly (around 30 lb.) onto dry marked location for 5 sec minimum.



12. Door sensor and Warning Label shown assembled in place. Once installed door sensor should not be removed and reinstalled.



13. Apply silicone caulking or approved mastic around perimeter of sensor and over the holes to ensure water will not penetrate as shown in Figure C.



Figure C: Perimeter of Sensor



TELEMATICS DEVICE INSTALLATION CHECKLIST

**Turn power on, Wait 5 minutes and check: all 6 LEDs should be ON
or Blinking**

LED	LIGHT ON	LIGHT BLINKING	PROBLEM
GPS	GPS connect to satellite	GPS searching for satellite	Light Off: check wire connection
CELL	Communication with cellular operator "ON"	Sending data	Light Off: check wire connection
CONTR	Connection with Controller and Not connected to RMM	Connection with Controller and also to RMM	Light Off: check wire connection
SENSOR	There is Communication with sensor	Sensor send data	Light Off: No connection with sensor
BATT	Back-up battery fully charged	Charging in process	Light off: Problem with back up battery
PWR	Power On	Power Off	Light Off: check wire connection



FCC Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with FCC Rules Part 15: Operation is subject to two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference that may be received or that may cause undesired operation.