

# Bluetooth Low Energy (BLE) Tire Pressure Monitoring System Design for Truck

BSI-03TB



## Quick Start Guide

## Product Specification

| BLE Sensor Specification          |                                  |
|-----------------------------------|----------------------------------|
| Working Voltage                   | 2.4V~3.6V                        |
| Working Humidity                  | 95% MAX                          |
| Working Current                   | < 22 uA AVG                      |
| Storage Temperature               | - 40℃ ~ 85℃                      |
| Working Temperature               | - 40℃ ~ 85℃                      |
| Tire Pressure Monitoring Range    | 0 ~ 185 psi (0 ~ 1280kPa)        |
| Tire Temperature Monitoring Range | - 40℃ ~ 85℃                      |
| RF Frequency                      | 2.4 GHz                          |
| RF Power                          | 4dBm MAX                         |
| Battery Life                      | >3 年 (12hrs/day)                 |
| Battery Capacity                  | 550 mAh (CR2450)                 |
| Sensor Weight                     | < 27g ± 0.5g (including battery) |

## Installation Guide

### Accessories

BLE TPMS Sensor  
Stainless strip band for sensor



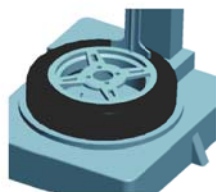
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### Installation Step

#### Step 1

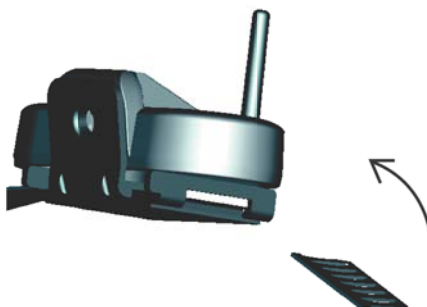
Dismount tire



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#### Step 2

Make stainless strip through the sensor fixing hole



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#### Step 3

3-1 Clean wheel surface before installation and make sure no any oil or liquid to cause installation defect.



3-2 Double-side tape can helps you to make sensor fix on the rim.  
When you choice the sensor location you want, press with force to make sensor perfect glue with rim.



3-3 Suggest to keep sensor and strip band locker install location stay by 180 degree.  
(Refer pic.)



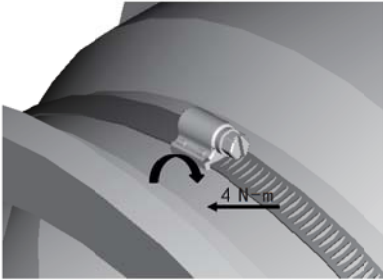
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#### Step 4

4-1 Stainless strip band max. torque spec 4N.m

4-2 Make sure strip band perfect fix on the wheel rim.( no sharking and no slip)

4-2 Mount tire with rim



\*\*\*\*\* Caution\*\*\*\*\*

Never leave over 5cm spare strip band inside the tire.

(Remark: too many spare strip band will reduce sensor fixability performance.)

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### Federal Communication Commission Interference Statement

This equipment 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 a residential installation.

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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

#### FCC Caution :

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. ( Example - use only shielded interface cables when connecting to computer or peripheral devices. )

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### FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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This low-power RF motor that has passed the certification approval already, That is not allow to make any frequency change, increase the power or change the characteristics to the original design without permission.

The low-power RF motors must not affect flight safety and interfere with legitimate communications; If interference is found, it should be immediately deactivated and improved without interference.

Legal communication in the preceding paragraph refers to radio communications operating in accordance with the provisions of the Telecommunications Act. Low-power RF motors must withstand interference from legitimate communications or industrial, scientific, and medical radio-electrical equipment.