CooSpo BK467

COOSPO BK467 Cadence & Speed Sensor

User Manual

1. Introduction

The COOSPO BK467 is a versatile cycling sensor designed to accurately monitor either your cycling cadence or speed. Featuring both ANT+ and Bluetooth connectivity, it seamlessly integrates with a wide range of cycling computers, GPS devices, and popular training applications. Its IP67 waterproof rating ensures reliable performance in various weather conditions.



Image: Front view of the COOSPO BK467 sensor, showcasing its compact design.

2. Key Features

- **Dual Functionality:** Monitors either cadence (RPM) or speed, switchable by reinstalling the battery.
- **Dual Connectivity:** Supports both Bluetooth and ANT+ protocols for broad compatibility.
- **Wide Compatibility:** Connects with popular cycling apps like Wahoo, Zwift, Rouvy, RidewithGPS, Peloton, Tacx, CoospoRide, and various GPS bike computers and sports watches.
- **Long Battery Life:** Up to 500 hours of operation with a replaceable CR2032 coin cell battery.
- **Durable Design:** IP67 waterproof rating ensures protection against water and dust.

3. Package Contents

Please check the box for the following items:

- COOSPO BK467 Sensor
- CR2032 Battery (pre-installed or included separately)
- Rubber Pads (for mounting)
- Rubber Bands (various sizes for mounting)



Image: Contents of the COOSPO BK467 sensor package, including the sensor, battery, and mounting accessories.

4. Specifications

Attribute	Value
Model Number	BK467
Dimensions	4.14 x 3.38 x 1.38 cm (1.63 x 1.33 x 0.54 inches)
Weight	9.5 grams
Battery Type	CR2032 (replaceable coin cell)
Battery Life	Up to 500 hours

Attribute	Value
Wireless Connectivity	Bluetooth & ANT+
Waterproof Rating	IP67
Material	Plastic



Image: Diagram showing the dimensions of the COOSPO BK467 sensor and a table summarizing its key specifications.

5. Setup and Installation

5.1. Switching Between Cadence and Speed Mode

The BK467 sensor can function as either a cadence sensor or a speed sensor. The mode is determined by how the battery is reinstalled. The sensor indicates its current mode via an LED flash upon battery reinstallation:

- **Cadence Mode:** Reinstall the battery until the **BLUE** indicator flashes for 3 seconds. Mount the sensor on the crank

arm.

- **Speed Mode:** Reinstall the battery until the **RED** indicator flashes for 3 seconds. Mount the sensor on the wheel hub.

Note: The two modes cannot operate simultaneously. To switch modes, remove the battery, wait a few seconds, and then reinsert it until the desired LED color flashes.



Image: Sensor in Cadence Mode, indicated by a blue light, ready for crank arm installation.



Image: Sensor in Speed Mode, indicated by a red light, ready for wheel hub installation.

5.2. Sensor Installation on Bicycle

Use the provided rubber pads and bands to securely attach the sensor to your bicycle.

- **For Cadence Mode:** Attach the sensor to the inside of your bicycle's crank arm. Ensure it is firmly secured and does not interfere with pedaling.
- **For Speed Mode:** Attach the sensor to the hub of your front or rear wheel. Make sure it is stable and does not rub against any spokes or other parts.



Image: Examples of the COOSPO BK467 sensor installed on a bicycle, showing placement for both cadence (on crank arm) and speed (on wheel hub).

6. Operating Instructions

6.1. Pairing with Cycling Apps (Bluetooth)

1. Ensure Bluetooth is enabled on your smartphone.
2. Download and open your preferred cycling app (e.g., CoospoRide, Zwift, Wahoo Fitness).
3. Activate the BK467 sensor by reinstalling the battery to the desired mode (blue for cadence, red for speed).
4. Within the app's settings or sensor menu, search for and connect to the COOSPO BK467 sensor. It should appear as a speed or cadence sensor.



Image: Step-by-step guide for pairing the sensor with a cycling app via Bluetooth, showing phone screens and sensor activation.

6.2. Pairing with Bike Computers / GPS Devices (ANT+)

1. Turn on your bike computer or GPS device.
2. Navigate to the sensor pairing menu (often found under 'Settings' or 'Sensors').
3. Activate the BK467 sensor by reinstalling the battery to the desired mode.
4. Select 'Add Sensor' or 'Search for Sensor' and choose the COOSPO BK467 when it appears. Ensure ANT+ is enabled on your device.



Image: Instructions for pairing the sensor with a bike computer via ANT+, showing device menus and sensor activation.

7. Maintenance

7.1. Battery Replacement

The COOSPO BK467 uses a standard CR2032 coin cell battery. When the sensor's performance degrades or it fails to connect, it may be time to replace the battery.

1. Locate the battery cover on the sensor.
2. Use a coin or a small tool to twist the battery cover counter-clockwise to open it.
3. Remove the old CR2032 battery.
4. Insert a new CR2032 battery with the positive (+) side facing upwards.

5. Align the battery cover and twist it clockwise to securely close it. Ensure the O-ring seal is properly seated to maintain waterproofing.



Image: Diagram illustrating the process of replacing the CR2032 battery in the COOSPO BK467 sensor.

7.2. Cleaning and Storage

The sensor is IP67 waterproof, meaning it is protected against temporary immersion in water and dust ingress. After rides in wet or dusty conditions, wipe the sensor clean with a damp cloth. Do not use harsh chemicals or abrasive cleaners. Store the sensor in a cool, dry place when not in use for extended periods.



Image: The COOSPO BK467 sensor shown with water droplets, highlighting its IP67 waterproof capability.

8. Troubleshooting

- **Sensor not connecting:**
  - Ensure the sensor's battery is properly installed and has sufficient charge. Reinstall the battery to activate the sensor.
  - Check that Bluetooth (for apps) or ANT+ (for bike computers) is enabled on your receiving device.
  - Make sure the sensor is in close proximity to your device during pairing.
  - Try restarting your cycling app or bike computer.
  - If connecting via Bluetooth, ensure no other device is currently connected to the sensor.
- **Incorrect or no data readings:**

- Verify the sensor is in the correct mode (cadence or speed) for its mounting location. Blue LED for cadence (crank arm), Red LED for speed (wheel hub).
- Ensure the sensor is securely mounted and not moving or rubbing against other parts.
- Check for any physical obstructions between the sensor and the receiving device.
- Replace the battery if readings are intermittent or absent.

- **LED indicator not flashing:**
  - This usually indicates a dead or improperly installed battery. Try replacing the battery with a new CR2032.
  - Ensure the battery is inserted with the correct polarity (+ side up).

9. Warranty and Support

COOSPO products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official COOSPO website.
For technical support, troubleshooting assistance, or product inquiries, please contact COOSPO customer service through their official channels. You can often find support information on the CooSpo Brand Store on Amazon or their official website.

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