## CooSpo BK805

# COOSPO BK805 Cadence and Speed Sensor User Manual

Model: BK805 | Brand: CooSpo

## 1. Introduction

The COOSPO BK805 is a versatile 2-in-1 sensor designed to accurately track both cycling cadence (RPM) and speed. It utilizes both Bluetooth and ANT+ connectivity, making it compatible with a wide range of cycling computers, smartwatches, and fitness applications such as Rouvy, Peloton, Wahoo, and CooSporide. This manual provides comprehensive instructions for the installation, operation, and maintenance of your BK805 sensor to ensure optimal performance and longevity.




*Image: The COOSPO BK805 sensor, a compact black device with an adjustable tail, designed for tracking cycling metrics.*

## 2. What's in the Box

Upon unboxing your COOSPO BK805 sensor, please verify that all the following components are included:

- COOSPO Cadence Speed Sensor (1 unit)
- Sensor Magnet (1 unit)
- User Manual (1 unit)
- Mounting Accessories (Rubber bands and zip ties)




*Image: All components included in the COOSPO BK805 package, laid out on a surface, showing the sensor, magnet, and various mounting accessories.*

## 3. Setup and Installation

### 3.1. Battery Installation

The sensor comes with a pre-installed CR2032 coin cell battery. Before first use, you may need to remove the battery insulating sheet to activate the sensor. To do this, gently open the battery cover, remove the plastic sheet, and then reinsert the battery with the positive (+) side facing up. Close the cover securely.

*Image: A close-up view of the COOSPO BK805 sensor's battery compartment, showing the CR2032 coin cell*

*battery being inserted.*

### 3.2. Adjusting the Sensor Tail

The BK805 sensor features an adjustable tail that determines whether it operates in cadence or speed mode. Use the provided tool to adjust the tail to the desired position:

- **Cadence Mode:** Position the tail to align with the crank arm.
- **Speed Mode:** Position the tail to align with the wheel spoke.

### 3.3. Installing the Rubber Pad

Attach the small rubber pad to the back of the sensor. This pad helps secure the sensor and prevents scratching your bike frame during installation.

### 3.4. Mounting the Sensor on Your Bike

The sensor is typically mounted on the chainstay of your bicycle. Use the provided rubber bands or zip ties to securely fasten the sensor to the chainstay. Ensure the sensor is firmly attached and does not move during cycling.




*Image: The COOSPO BK805 sensor securely mounted on the chainstay of a bicycle, demonstrating its universal fit.*

## 3.5. Magnet Installation and Alignment

For accurate readings, the sensor requires a magnet to pass by its detection point. The type of magnet and its placement depend on whether you are using the sensor for cadence or speed:

- **Cadence Mode:** Attach the small magnet to your crank arm. Ensure the magnet passes closely by the sensor's detection area (indicated by a small mark on the sensor body) as you pedal.
- **Speed Mode:** Attach the small magnet to a wheel spoke. Ensure the magnet passes closely by the sensor's detection area as the wheel spins.

The ideal gap between the sensor and the magnet should be less than 12mm for reliable detection.

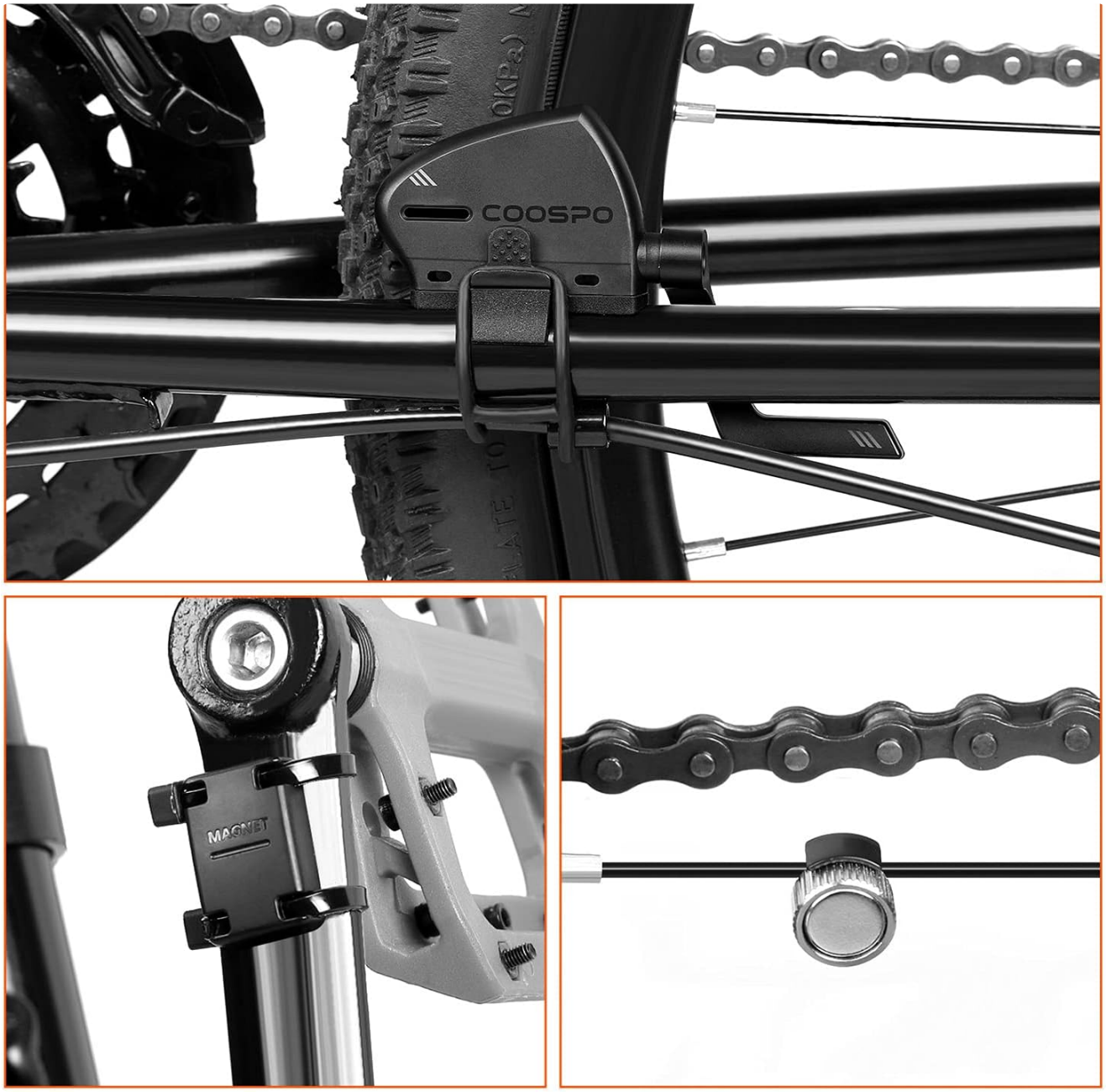



*Image: Detailed view of the COOSPO BK805 sensor mounted on the chainstay, with close-ups showing the magnet attached to the pedal crank arm and a wheel spoke for cadence and speed detection respectively.*

## 3.6. Checking LED Indicators

After installation, spin the wheel or crank arm to activate the sensor. The sensor has two LED indicators:

- **Speed Indicator:** A blue LED light will flash when the speed sensor is active and detecting rotations.

- **Cadence Indicator:** A green LED light will flash when the cadence sensor is active and detecting rotations.

If the LEDs do not flash, recheck the battery installation and the alignment of the sensor and magnet.

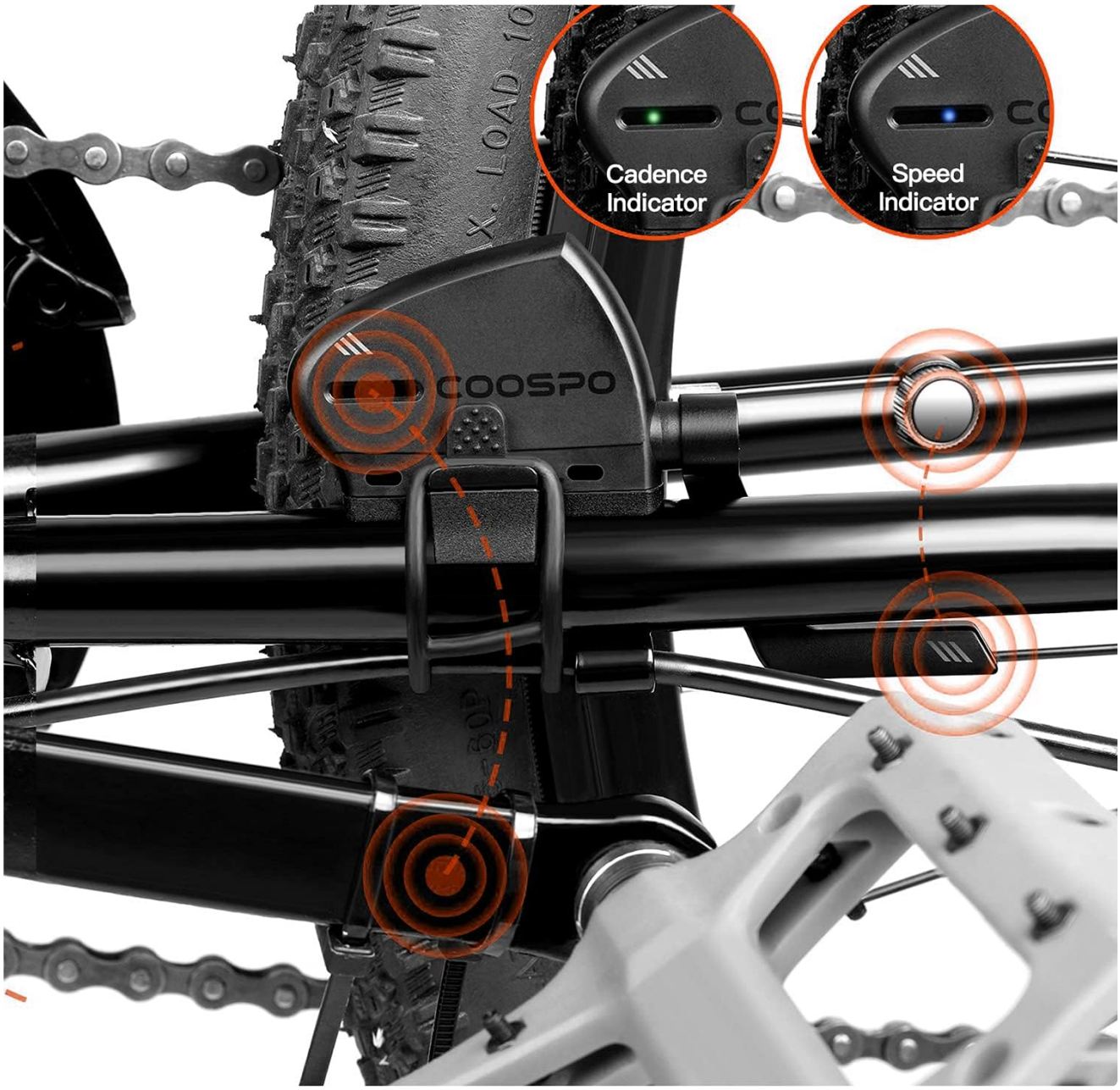



*Image: A close-up of the COOSPO BK805 sensor showing its green (cadence) and blue (speed) LED indicators, which flash upon detection.*

### 3.7. Installation Video Guide

*Video: A comprehensive guide demonstrating the unboxing, battery installation, sensor adjustment, mounting, magnet placement, and LED check for the COOSPO BK805 sensor.*

## 4. Operating Instructions

### 4.1. Pairing with Cycling Computers and Apps

The COOSPO BK805 sensor supports both Bluetooth and ANT+ connectivity, allowing it to pair with a wide range of devices and applications. To pair your sensor:

1. Ensure the sensor is installed correctly and active (LEDs flashing when wheel/crank is spun).
2. On your cycling computer, smartwatch, or smartphone app, navigate to the sensor pairing or device connection settings.
3. Select 'Add Sensor' or 'Search for Devices'. The BK805 should appear in the list of available devices.
4. Select the BK805 sensor to complete the pairing process.

The sensor is compatible with popular fitness apps such as Rouvy, Peloton, Wahoo, and CooSporide, providing real-time speed and cadence data for your training sessions.




*Image: The COOSPO BK805 sensor shown alongside a cycling computer and a smartphone displaying accurate speed and cadence data.*

# Third-party APP Compatible

Works with most popular cycling Apps including TrainerRoad,RidewithGPS, Zwift, Rouvy, Peloton, Openrider, CoospoRide, and so on.




*Image: The COOSPO BK805 sensor integrated into a virtual cycling setup, demonstrating compatibility with third-party applications such as Zwift.*

## 5. Maintenance

### 5.1. Battery Replacement

The COOSPO BK805 sensor uses a replaceable CR2032 coin cell battery, which provides up to 500 hours of continuous use. When the sensor's performance degrades or it fails to connect, it may be time to replace the battery. Follow the battery installation steps (Section 3.1) to replace the old battery with a new CR2032 battery.

### 5.2. Cleaning

To maintain optimal performance and extend the lifespan of your sensor, regularly clean its exterior with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the device.

### 5.3. Waterproofing

The BK805 sensor boasts an IP67 waterproof rating, meaning it is protected against dust and can withstand immersion in water up to 1 meter for 30 minutes. This makes it suitable for use in various weather conditions, including rain. However, it is not designed for prolonged submersion or high-pressure water jets.



*Image: The COOSPO BK805 sensor with water droplets on its surface, illustrating its IP67 waterproof capability, suitable for riding in wet conditions.*

## 6. Troubleshooting

If you encounter issues with your COOSPO BK805 sensor, refer to the following common problems and solutions:

- **Sensor Not Detected/Connecting:**
  - Ensure the battery insulating sheet has been removed and the battery is correctly inserted.
  - Spin the wheel or crank arm to wake up the sensor and activate its broadcast signal.
  - Check that the sensor and magnet are properly aligned and the gap is less than 12mm.
  - Verify that Bluetooth or ANT+ is enabled on your receiving device (cycling computer, phone).
  - Try restarting your receiving device.
- **Inaccurate Readings:**
  - Recheck the alignment and proximity of the sensor and magnet.
  - Ensure the sensor tail is correctly positioned for either speed or cadence mode.
  - If using for cadence, ensure the crank magnet is securely attached and passing the sensor.
  - If using for speed, ensure the spoke magnet is securely attached and passing the sensor.
- **Cadence Sensor Missing (as per product reminder):**
  - If the cadence sensor is not registering, please recheck whether it is attracted to the magnet on the crank arm. The magnet must be close enough to trigger the sensor.
- **Not Compatible with Your Bike:**
  - If you experience compatibility issues with your specific bicycle model, please contact CooSpo customer support for assistance.
  - Note: This sensor is generally not recommended for indoor spinning bike use.

## 7. Specifications

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|---|---|
| **Brand** | CooSpo |
| **Model Name** | BK805 |
| **Sensor Type** | Bluetooth ANT COOSPO Cadence Speed Sensor |

| | |
|---|---|
| **Connectivity Technology** | Bluetooth, ANT+ |
| **Battery Type** | CR2032 Coin Cell Battery |
| **Battery Life** | Up to 500 Hours |
| **International Protection Rating** | IP67 |
| **Item Weight** | 50 Grams |
| **Material** | Plastic |
| **Included Components** | COOSPO Cadence Speed Sensor, Sensor Magnet, User Manual, Mounting Accessories |

## 8. Warranty and Support

For warranty information, technical support, or any inquiries not covered in this manual, please contact CooSpo customer service. You can typically find contact details on the official CooSpo website or through the retailer where you purchased the product. Please retain your proof of purchase for warranty claims.
An additional user manual in PDF format may be available for download from the product's Amazon listing or the manufacturer's website for further reference.

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