Polar Cadence Sensor is designed to measure cadence, i.e. crank revolutions per minute, when cycling. Polar Speed Sensor is designed to measure speed and distance when cycling. The sensors are compatible with Bluetooth® Smart Ready devices that support Bluetooth® Cycling Speed and Cadence Service — for example, the Bluetooth® Smart Ready Polar training computers that support the service.

When using a smartphone, a separate application is required to view the data. It is recommended to use the Polar Beat application but it is also possible to use other applications.
If you have an account in a Polar web service, Polar Beat automatically synchronizes your training files to it. Please note that you must sign into Polar Beat with your Polar web service username and password for the autosync to work.

Register your Polar product at http://register.polar.fi to ensure we can keep improving our products and services to better meet your needs.

The latest version of this user manual can be downloaded at www.polar.com/support.

Please follow the pictures on the front and back covers.

Write the device ID printed on each sensor in the space on the front cover (picture 1). The original marking may fade as a result of normal wear and tear.


**Cadence Sensor Parts**

1. Cadence sensor (pictures 2 A and 3 A)
2. Cadence magnet (picture 3 B)

**Installing the Cadence Sensor**


To install the cadence sensor and cadence magnet, you need cutters.

1. Check the chain stay for a suitable place for the cadence sensor (picture 2 A on the front cover). Do not install the sensor on the same side as the chain. The Polar logo on the sensor should be facing away from the crank (picture 3 A on the back cover).

2. Attach the rubber part to the sensor (picture 1 on the front cover).

3. Clean and dry a suitable place for the sensor and place the sensor on the chain stay (picture 3 A on the back cover). If the sensor touches the rotating crank, tilt the sensor slightly away from the crank. Pass the cable ties over the sensor and rubber part. Do not tighten them fully yet.
4. Place the cadence magnet vertically on the inner side of the crank (picture 3 B on the back cover). Before attaching the magnet, clean and dry the area thoroughly. Attach the magnet to the crank and secure with tape.

5. Fine-tune the positioning of the sensor so that the magnet passes close to the sensor without actually touching it (picture 3 on the back cover). Tilt the sensor towards the magnet so that the gap between the sensor and the magnet is under 4 mm/0.16”. The gap is correct when you can fit a cable tie between the magnet and the sensor. There is a small caved dot on the backside of the sensor (picture 1 A on the front cover), which indicates the spot the magnet should be pointing at when passing the sensor.

6. Rotate the crank to test the cadence sensor. The flashing red light on the sensor indicates that the magnet and the sensor are positioned correctly. If you keep rotating the crank, the light will stop flashing. Tighten the cable ties securely and cut off any excess cable tie ends.
Speed Sensor Parts

1. Speed sensor (pictures 2 B and 4 A)
2. Spoke magnet (picture 4 B)

Installing the Speed Sensor

For a video tutorial, see Installing Polar Speed Sensor at www.polar.com/en/polar_community/videos.

To install the speed sensor and spoke magnet, you need cutters and a cross-head screwdriver.

1. It is recommended to install the speed sensor on the front fork of your bicycle (as in picture 2 B on the front cover).

2. Attach the rubber part to the speed sensor (picture 1 on the front cover).

3. Pass the cable ties over the speed sensor and rubber part (picture 4 A on the back cover). Adjust the sensor to the front fork so that the POLAR logo faces outwards. Adjust the ties loosely. Do not tighten them fully yet.
4. Attach the magnet to a spoke at the same level as the speed sensor (picture 4 on the back cover). There is a small caved dot on the backside of the sensor (picture 1 A on the front cover), which indicates the spot the magnet should be pointing at when passing the sensor. Fasten the magnet to the spoke and tighten it lightly with a screwdriver. Do not tighten it fully yet.

5. Fine-tune the positioning of both the magnet and the speed sensor so that the magnet passes close to the sensor but does not touch it (picture 4 on the back cover). Move the sensor towards the wheel/spokes as close as possible. The gap between the sensor and the magnet should be under 4 mm/0.16”. The gap is correct when you can fit a cable tie between the magnet and the sensor.

6. Rotate the front tire to test the speed sensor. The flashing red light on the sensor indicates that the magnet and the sensor are positioned correctly. If you keep rotating the tire, the light will stop flashing. Tighten the screw to the magnet with a screwdriver. Also tighten the cable ties securely and cut off any excess cable tie ends.

Before you start cycling, set the wheel size of your bicycle into the receiving device or mobile application.
**Polar Universal Bike Mount**

The product package includes a Polar Universal Bike Mount (picture 2 C on the front cover). You can use it to attach your receiving device on the handlebar of your bike. Polar Universal Bike Mount can be used with wrist units only. If you are using a smartphone, you need to purchase a compatible bike mount separately.

Use cable ties to secure the bike mount snugly on the handlebar as in the picture below.

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**Pairing**

Your new sensors must be paired with the receiving device in order to receive data. For more information, see the user guidance material of the receiving device or mobile application.
To ensure a good connection between the sensors and the receiving device, it is recommended to keep the device in a bike mount on the handlebar.

Care and Maintenance
Keep the sensors clean. Clean them with a mild soap and water solution, and rinse off with clean water. Dry carefully with a soft towel. Never use alcohol or any abrasive material, such as steel wool or cleaning chemicals. Do not immerse the sensors in water.

Your safety is important to us. Make sure that you can turn your handlebars normally and that the cable wires for brakes or gears do not catch the bike mount or sensors. Also, make sure that sensors do not disturb pedaling or using the brakes or gears. While riding your bike, keep your eyes on the road to prevent possible accidents and injury. Avoid hard hits as these may damage the sensors.

Replacement magnet sets can be purchased separately.

Battery
The batteries cannot be replaced. The sensors are sealed in order to maximize mechanical longevity and reliability. To purchase a new sensor, contact your authorized Polar Service or retailer. You can also purchase sensors online. Go to www.polar.com to find your own country's shoppolar online store.

The battery level of your sensors is displayed on the receiving device if it supports Bluetooth® Battery Service.
To increase battery life, the sensors go into standby mode in thirty minutes if you stop cycling and the magnets are not passing the sensors.

**Frequently Asked Questions**

What should I do if...

...the cadence/speed reading is 0 or there is no cadence/speed reading while cycling?

- Make sure the position and distance of the sensor to the magnet are appropriate.
- Check that you have activated the cadence/speed function in the receiving device. For further information, see the user guidance material of the receiving device or mobile application.
- Try keeping the receiving device in a bike mount on the handlebar. This may improve the connection.
- If the 0 reading appears irregularly, this may be due to temporary electromagnetic interference in your current surroundings.
- If the 0 reading is constant, the battery may be empty.

...there are irregular cadence, speed, distance or heart rate readings?

- Disturbance may occur near microwave ovens and computers. Also WLAN base stations may cause interference when training with Polar Cadence Sensor and Polar Speed Sensor. To avoid erratic reading or misbehaviors, move away from possible sources of disturbance.
... I want to pair the sensor with the receiving device before installation?

- Follow the instructions in the user guidance material of the receiving device or mobile application. Instead of rotating the crank/wheel, activate the sensor by moving it back and forth close to the magnet. The flashing red light indicates that the sensor is activated.

How do I know...

... if the sensor is transmitting data to the receiving device?

- When you begin cycling, a flashing red light indicates that the sensor is alive and it is transmitting cadence/speed signal. As you continue cycling, the light stops flashing.
Technical Specification

Operating temperature: -10 ºC to +50 ºC / +14 ºF to +122 ºF
Battery life: Average 1400 hours of use
Accuracy: ±1 %
Material: Thermoplastic polymer
Water resistance: Splash proof

FCC ID: INWY6

Cadence Sensor Bluetooth QD ID: B021137

Speed Sensor Bluetooth QD ID: B021136

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