



INSTALATION MANUAL – Gearsensor



**Description:**

This unique patent pending system developed and made in Czech Republic is based on intelligent GearSensor fixed on shifting cable, which is cutting off motor drive when rider activates gear shifting. This brand new technical solution eliminates user-unfriendly and noisy rear derailleur shifting which is caused by chain over straining. GearSensor in combination with front derailleur allows smooth shifting even if the e-bike is equipped by double/triple chainwheel mid-motor. In addition GearSensor in combination with internal gear hubs allows perfect shifting performance. Programmable processors enable individual time setting for gear shifting up and down, and adjust micro movement sensitivity of inner cable to avoid motor cutting off caused by cable vibration during riding e-bike.

Compatibility:

Gearsensor is already compatible with EVBIKE CENTRAL KIT system. Model GS-D is a universal model for both derailleurs (front and rear). In this model restart of the motor depends on the FINISH of the shifting cable movement. This is because system has to wait until finish of the movement of the chain to choose a sprocket or a chainring.

Warning:

Please do not open GearSensor housing during assembling!

Instalation manual

Step 1:

First, prepare the components for installation. Gearsensor, new shift cable, bowden and two terminals for bowden end. The new shift cable is not absolutely necessary, but old and frayed wires will be very difficult to re-install. Efforts made to use the original cable is much greater than if you buy a new cable. Using the original cable is only recommended for new and unused bikes.

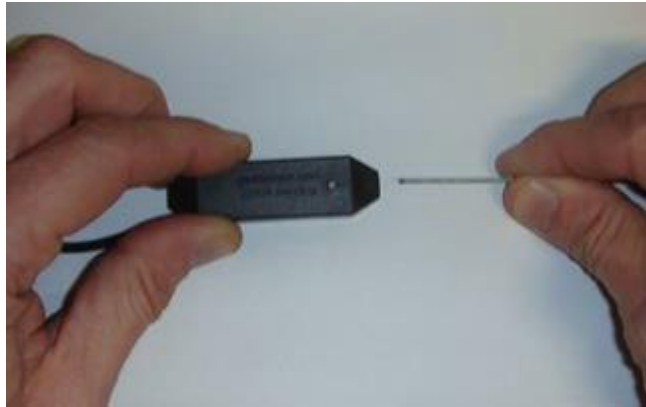
Step 2:

Give the derailleur to the lowest level so that the cable completely out of pressure. After that, dismount bowden and cable from the line. Gearsensor will be placed near the shift lever. Now cut off the bowden in this section approximately of 5 cm. Second, cut the other part of bowden, which corresponds to approximately the length of the actual gear sensor. Entrance and exit of bowden parts must be a distortion of circular cross section and free of burrs. Now on the ends of the bowden attach terminals.

Step 3:

Now grasp the cable and slide it onto Gearsensor. On insertion direction does not matter. Cable when inserting try to keep at a distance of up to 2 cm from the end. Keep the direction right into the middle of Gearsensor body and do not be afraid to use reasonable force to insert the cable into the body - the sensor on first use might

put a little more resistance than expected. Once the cable is pulled through the sensor, assemble the remaining parts of the cable guide. Finally adjust shifting.



Step 4:

Gearsensor connector is connected to the original connector for the brake levers. In case that the brake levers are in use, we recommend connecting gearsensor instead of the brake lever on the left side, which serves the front brakes. In case that the brake lever is not using it does not matter on connector which you use.

Step 5:

Gear Sensor is completely automatic and does not need to be configured. Make the test drive and adjust if necessary shifting. If all is OK, enjoy your smoothly shifting thanks to Gearsensor.

