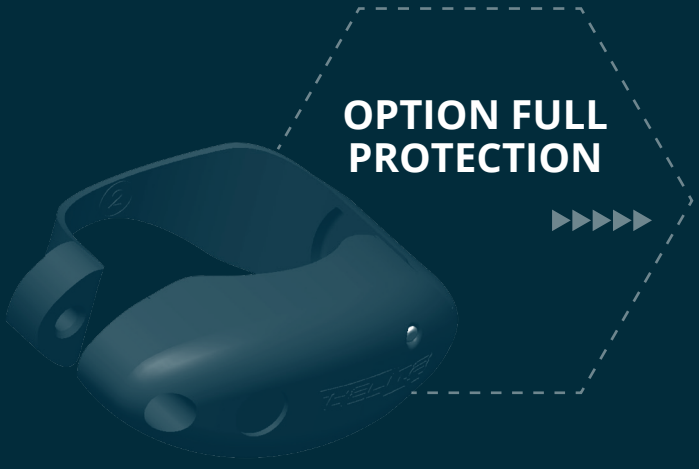
airbag technology expert



OPTION FULL PROTECTION

USER GUIDE / SDU FORK SENSOR

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CE
Certified airbag

- It is possible to pair as many vests as you like with one fork sensor.
- Rider and pillion rider can use the same fork sensor.

To check if your vest has recognized the fork sensor, you just need to place the magnet on the fork sensor. A short beep on the vest indicates that it is recognizing the sensor and that the fork sensor and the vest are connected.

B. Install the fork sensor on the motorcycle fork

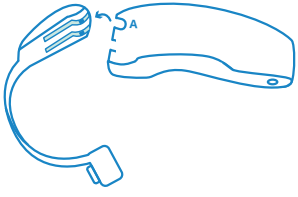
Fork	Shim	Foam	Notch	Bracelet	Screw size
35 mm	✓	×	A	1	35 mm
≥ 37 mm	×	×	A	1	35 mm
≥ 40 mm	✓	✓	A	2	35 mm
≥ 44 mm	✓	×	A	2	35 mm
≥ 48 mm	×	×	A	2	35 mm
≥ 50 mm	×	×	A	2	50 mm
≥ 53 mm	×	×	A	3	50 mm

1. Choose the right bracelet size

Try the different sizes referring to the table above. The right size has to be adjusted to the motorcycle fork. The screw needs to be screwed into the nut of the bracelet.

2. Assemble the sensor and the bracelet

Clip the wide side of the bracelet to the side of the fork sensor. Choose notch A to adjust the bracelet to the size of your motorcycle fork.

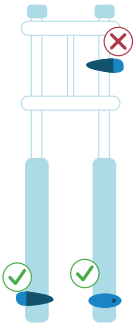


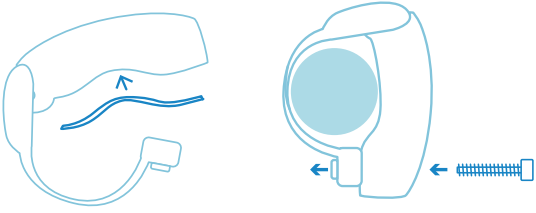
Caution: If other vests are paired to the sensor, they must be switched off.

3. Place the sensor

Caution: Make sure to thoroughly clean your fork before installing the sensor.

a) Place the sensor on the bottom of one of the fork sleeves of the motorcycle. Please check that no part of the motorcycle comes into contact with the sensor while riding.
b) Add the shim if necessary to adjust the fork sensor.
c) Tighten the screw by using the nut. Do not tighten more than 1.5 Nm to avoid breaking the fork sensor (you can stop screwing when it gets difficult to turn the bracelet with your hand).





C. Wear the vest

Adjust the straps of the vest and close the three clips (e-Turtle) or close the velcro (e-GP Air) for proper airbag operation.

3. Impacts and detected accidents

For the autonomous version (without fork sensor) the minimum speed must be 20 km/h for a fall or accident to be detected. Here are the possible detection cases:
- Motorcycle striking or being struck by a significant obstacle (vehicle, wall, post, etc.) from the front, side or rear.
- Loss of control of the motorcycle (without impact on the motorcycle): Slipping on the side or falling off the motorcycle.

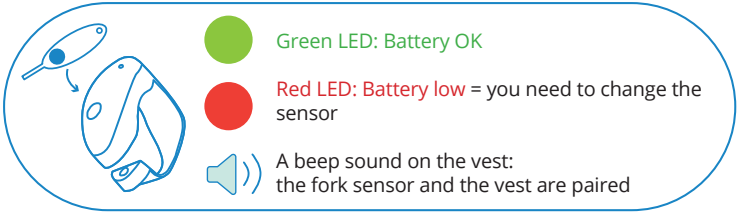
When the vest is associated with the fork sensor, the list of detected accidents is extended to impacts from 0 km/h on (e.g. impact when stopped by a third party vehicle). Additionally, the detection time is divided by 2.

Please note that each accident is different. Even though the Helite crash detection system covers a large majority of potential accidents, there is always a non-zero risk of non-triggering, especially in the following situations:
- Lack of GPS signal (tunnel, underground parking, etc.)
- Speed too low (especially when using the vest in autonomous version)
- Low-amplitude fall.

Caution: The vest sensor is sensitive to sudden body movements.
Do not intentionally execute movements that are not necessary for normal motorcycle riding. It is equally important to not intentionally cause shocks to the fork sensor when your vest is on. Both of these cases could trigger and consequently inflate the airbag.

4. Autonomy

Once installed and correctly paired (see first use, page 10), the fork sensor is **totally autonomous** (about 5 years). It is constantly in sleep mode and only wakes up if an accident is detected. It is not necessary to take care of it often after installation. We recommend to **check on a regular base (once a month) if the fork sensor is working properly.** Place the magnet over the round sign of the fork sensor to check that the fork sensor is still activated and that paired with the vest. Please note that this check should be done in an environment of more than 10°C.



GOOD TO KNOW: To delete all the sensors that are paired with the vest, press the button ⏻ on the vest for 8 seconds.

5. Maintenance

A. SAFETY ADVICES

- Never disassemble the components of the fork sensor & open the fork sensor.
- Always place the sensor on the motorcycle fork (see page 12).
- Check the battery regularly (once a month) by placing the magnet over the round sign on the saddle sensor. Please note that this check should be done in an environment of more than 10°C.
- the SDU fork sensor should only be used in a temperature range of -10 to + 45°C. Prolonged exposure of the system to temperatures below -10°C and above 45°C may impair the proper functioning of the system.

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.
NOTE: 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 or more 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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ISED Statement:

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) this device may not cause interference,
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

B. MAINTENANCE & RECYCLING

- You can leave the sensor on your motorcycle all year round.
- The SDU fork sensor is waterproof and resistant to different temperatures.
- Do not throw the fork sensor in your bin. Bring it to a dump or bring it to your dealer.

6. Warranty & After sales service

A. EXCHANGE

If you encounter any of the problems described below, please contact a dealer or contact us for repair or exchange of the product:
- the activated (switched on) vest does not show any reaction when you place the magnet over the sensor.
- the SDU fork sensor flashes red when you place the magnet over the round sign during the first 5 years of purchase.

After sales service:
Contact us via mail: sav@helite.com or via telephone: +33(0) 3 80 35 48 26

B. WARRANTY

The electronic airbag system with the option "full protection" comes with a 2 year warranty. You can extend the warranty by 2 years if you register the product within 3 months after your purchase at my.helite.com.

7. Certifications

This product is CE certified by ALIENOR CERTIFICATION (Zone du Sanital, 21 Rue Albert Einstein CHATELLERAULT-France) notified body number 2754 according to the protocol CRITT AMC 012. This product complies with the requirements of EU Regulation 2016/425. The EU Declaration of Conformity can be consulted on the website www.helite.com.
The electronic card is certified by TÜV Rheinland. FCC ID: 2AXTY-1A022133.

8. Disclaimer

- Helite and its distributors refuse any responsibility for an incorrect installation or use of the Helite SDU fork sensor.
- Helite and its distributors cannot be held responsible if the airbag does not inflate.
- Every modification or incorrect use of the fork sensor can lead to a malfunctioning of the electronic airbag system.
- Helite electronic airbag systems do not detect all accidents and falls.
- In the event of an accident or a fall, the electronic airbag system reduces the forces transmitted to the user but does not guarantee to prevent personal injury or death.

airbag technology expert

CE

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