

## TECHNICAL SPECIFICATIONS

Color	Amber	Lamp type	High-intensity LED
Battery life	18 months	Actication	Manual with push button
Waterightness	IP54	Intensity	>40 candelas
Wind resistance	+180Pa	Visibility	360 degrees horizontal,+/- degrees vertical
Frecuency	Between 0.8 and 2Hz	Operating temperature	-10°C/+50°C
Autonomy	Approximate 2H	Power supply	3 AA alkaline batteries,LR6 type

NB-IoT	Transmission bands	Band 20 and Band 8
	Maximum transmission power	+25.7dBm



**LEDwork** Beacon Light IoT operates at the touch of a button:


### ON “” PRESS THE TOP BUTTON

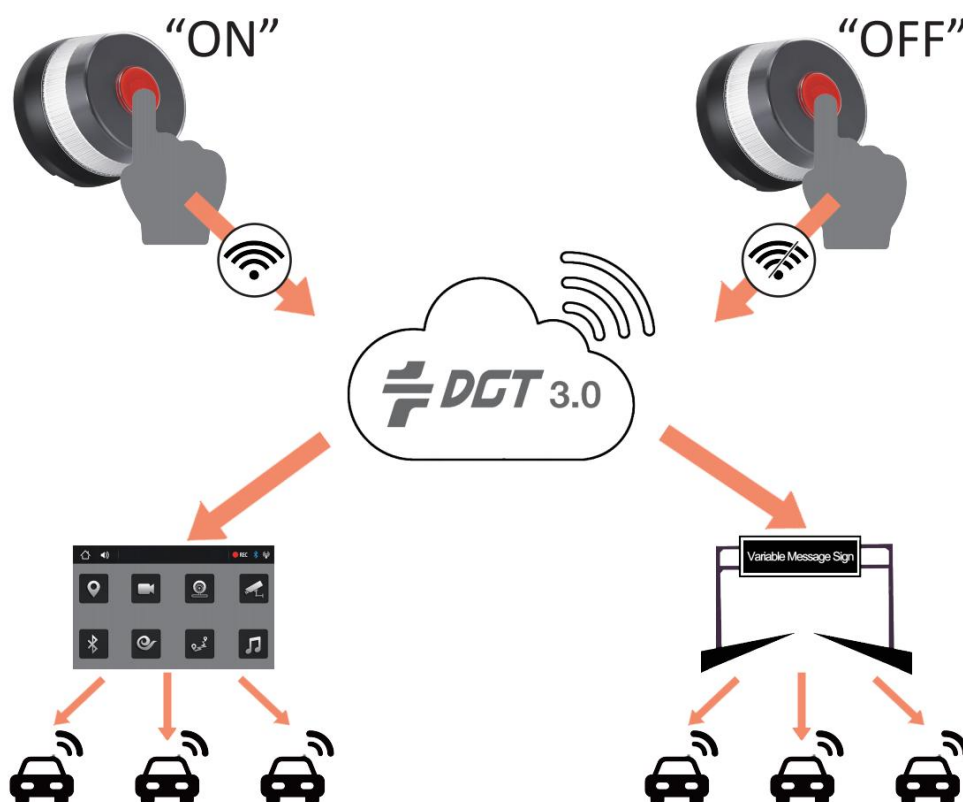
Pressing the button activates the unit.

During start-up, the device will obtain its geographical position by means of a GNSS (Global Navigation Satellite System) signal. The NB-IoT module will connect to the Telefonica mobile network and every 100 seconds will send a normalised and anonymous data frame to a server connected to the National Access Point for traffic and mobility.

### OFF “” PRESS THE TOP BUTTON

Pressing the button again stops the flash pattern and a last data frame will be sent to the server indicating the end of the incident. From this moment on, the device is switched off and completely disconnected, so its position will no longer be visible to connected vehicles and on information panels.

 **Warning:** Switch off your device only when you are ready to start driving, to avoid an accident, as it will not be digitally visible.



## REPLACING THE BATTERIES

If you have used the device for 30 minutes or more, switch off and wait 5 minutes before opening the cover, as the batteries may be hot.

**Lift and remove the cover by pressing on the cover locking clip.**

**Always use LR6 (AA) alkaline batteries.**

Insert the batteries according to the polarity marked on the device and match the polarity marked on the batteries. The battery box is designed so that the batteries are placed in series in a single position. If you are unable to insert them or if they do not fit correctly, please note the position and marking of the terminals, and repeat the operation.

Once you have installed the new batteries, insert the cover again. Press on the entire cover to ensure that it is completely flush, if not, some of the batteries may not be correctly inserted. Check that your device is working correctly by activating it for 30 seconds, it should flash normally after a few seconds, after four light sequences. Dispose of used batteries according to the instructions and local battery recycling regulations at a designated collection point.



## FEATURES

**LEDwork** Beacon Light IoT is a V16-type regulatory light signalling device, with autonomous connectivity via the telephone network, and is certified and approved by an accredited laboratory in accordance with regulation 765/2008 (CE). You can see the approval code of the product engraved on the lampshade. It is a lightweight light beacon that is intuitive to operate at the touch of a button and emits an intense yellow auto-flash that covers 360 degrees horizontally and up to +8 and -8 degrees vertically. At night it is visible in all directions for more than one kilometre. For optimum performance, use high-quality alkaline LR6 (AA) batteries, like the ones supplied with your device. It does not affix to non-ferrous metals, but will remain stationary within regulatory limits on horizontal surfaces of all types. This device is static, it should not be used on surfaces or objects subject to strong movements or vibrations, as it could become detached.

## USAGE


**LEDwork** Beacon Light IoT intended for use in accordance with the General Road Traffic Regulations as provided in R.D. 159/2021 dated 16 March, in the event of a breakdown or accident and which, from 1 January 2026, will be compulsory as a replacement signal for the current triangles and V16-type analogue lights. By activating it and placing it on the roof or the highest point of the vehicle, it will manage, without leaving the vehicle, to become visible and immediately visually alert about the obstacle generated on the road, and reduce your stress level in order to be able to make decisions. This device incorporates a digital connectivity module with NB (Narrow Band) technology, which anonymously, when switched on, will communicate via the telecommunications network to transfer its geographical position data to the national access point for traffic and mobility. The only purpose of this is to alert other connected vehicles, and other drivers through the public information panels closest to the point where you are, of the existence of an obstacle on the road, in order to avoid an accident, ensuring your safety and that of other users who are heading towards you.

Therefore, your geolocation data, anonymously, will be communicated to Direccion General de Trafico(DGT), in compliance with the aforementioned legal obligation.

Please keep your device within reach at all times, in your car's glove compartment. Use it when you need to be seen and always in the cases provided for by law. Always place the device at the highest possible point in order to be seen from the furthest distance,

and always in as horizontal a position as possible, to ensure your visibility and the highest efficiency of the communication signal.

 **Warning:** improper use of the device or use for reason other than those allowed by law could be sanctioned.

 **Warning:** Always use your device in conjunction with the warnings of your vehicle, or even switch on the dipped headlights if they do not work. When getting out of the vehicle, do not forget to wear a high-visibility waistcoat and to exit the vehicle from the safest side.

**Additional safety.** Try not to stare at the beam when it is flashing normally, especially at night or in low ambient light, and in any case never do so at a distance of less than 1 metre, as this could cause a one-off glare, or even possible eye injury.

### Connectivity

As per the current Spanish Traffic Law and RD/159/21, this device is equipped with digital connectivity, via the Telefonica operator's national telephone network, up to the data printed on the label on the side of the box and on the device itself, using Narrow Band technology, which guarantees the best and most efficient coverage throughout the national territory. This technology is low frequency and therefore completely safe for the user.

This data only refers to expiry of the telecommunications coverage, not the device itself.


### DEVICE COMMUNICATIONS ANONYMITY GUARANTEE

The anonymity of communications in accordance with current regulations. Each device is unique and is identified by its indelible and visible serial number (IME) engraved on the device and the box. Regulatory conditions for the use of these devices fully guarantee the anonymity of communications. For more information visit the official website of the Direccion General de Trafico at [www.dgt.es](http://www.dgt.es)

### FIRST USE AND DEVICE TESTING

**LEDwork** Beacon Light IoT devices have been produced under the strictest safety and quality controls, so they are tested one by one before leaving the factory, and therefore do not require any additional checks or maintenance, except those related to battery wear and external cleaning

It is possible to check the operation of the light by activating the device for 60 seconds, so that you can verify that the light is working properly. In case of low light intensity after the first 30 seconds. The batteries must be replaced. To perform this check, avoid looking directly at the device from the side where the maximum light intensity is produced. Do this from a distance or indirectly.

 **Warning:** Do not leave it on any longer when checking the device. After 100 seconds it will send your geographical position data to the national access point for traffic and mobility.

### CHECKING THE CONDITION OF THE BATTERIES

You can periodically check if the device is working correctly and if the batteries have sufficient charge by simply activating it for 30 seconds, during which time you will be able to see its maximum light output. Do this by looking at a distance or indirectly. Replace the batteries if the light dims considerably during these 30 seconds. Check the condition of the batteries every 6 months, or always before going on a long journey, e.g. on holiday. Always check the expiry date which you will see printed on the batteries and replace them before they expire, for your safety. This does not mean that they are worn out or damaged, they can be used in all kinds of compatible electrical appliances in your home.

**Warning:** Never check the batteries visually in low light conditions or at night, as you could be temporarily blinded.

### STORAGE

This device should be stored inside the cabin of the vehicle, away from direct sunlight, dampness or humidity. It must be within the driver's reach but out of reach of children. Do not put items directly on top of the device to avoid it being activated accidentally. Periodically check the condition of the batteries, we recommend doing so every six months. If the vehicle isn't going to be used for a long period of time, it is best to remove the batteries temporarily.

### OPTIMUM POSITIONING OF THE V16 BEACON

Whenever possible, the device should be placed on the highest part of the vehicle

## GENERAL SAFETY

This device is not a toy and is not intended for use by children or by persons with reduced or no experience or knowledge unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety. Children should be supervised to ensure that they do not play with this device. This device is equipped with a highly inductive magnetic base, be careful not to place it close to sources that emit or receive magnetic radiation, or to pacemakers, in case you accidentally swallow the magnetic base, this could cause very serious injuries. This device has a radio frequency connectivity module that works with Narrow Band IoT technology, it is safe to use as it is certified within the permissible legal limits for human exposure to radio frequency; however, avoid exposure near medical devices sensitive to RF type emissions. If the device should break or become inoperable, and in any case at the end of its useful life, dispose of all parts at a clean point.

For the purpose of meeting the regulatory requirements for RF exposure for the general public, as defined in EN50385:2017, the device shall be kept more than 11 cm away from people during transmissions.

## MAINTENANCE

**LEDwork** Beacon Light IoT is a lighting device, and as such, it has a very bright bulb, which should always be kept as clean as possible, so it should not be handled with dirty hands or expose it to any substances or materials that could alter its bright structure. For cleaning, abrasive or chemically damaging substances. such as alcohols. volatile or flammable liquids of any kind. should be avoided at all costs. A little soapy water and a cotton cloth should be sufficient for surface cleaning, Avoid submerging the device for cleaning to prevent water from entering the interior, as although it can withstand very severe atmospheric conditions, it is not submersible.