



DC Fence

## An electronic fence that protects against thefts



Every year, goods worth more than 80 billion kronor are stolen from trucks – and that is just in Europe. The problem is growing as the value of cargo in transit keeps rising. With DC Fence you can build an electronic fence that shields your vehicle, for instance when the truck is parked overnight.



DC Fence is a patented protection system that is based on a direction sensitive short range radar which is integrated in a specially developed side marker light (DRN) . It is installed by replacing the existing side-marker lights. Sensors are used to alert the driver if anyone

approaches the truck and remains there for too long. DC Fence is based on the compulsory side marker lights, which are easily replaced with modern versions featuring built-in LED lights, sensors and radio communication . Installation is simple, the existing

side marker lights are replaced and the power supply is rerouted to the new unit. All communication between the units is wireless. DC Fence can also be used for a number of interesting supplementary functions.

The installation of DC Fence side marker lights creates an electronic fence that protects the truck and/or trailer against unwanted visitors, for instance when it is parked overnight.

## Side marker lights that trigger the alarm

The driver is alerted if anyone gets too close to the trailer, usually less than half a meter, and stays there too long. On vehicles equipped with a telematic unit, an automatic alarm can also be transmitted to a third party. When the alarm is triggered, a wave of lights is activated along the entire side of the vehicle to warn off the intruder.

### Applications

DC Fence can be used to protect most commercial vehicle types, for instance:

- trucks and trailers,
- all vehicles more than six meters in length and which are thus required by law to have side marker lights.
- vehicles where reinforced protection is needed.

### Other functions

DC Fence is based on mounting our smart LED-lights with a lifetime that exceeds the life of the vehicle itself. The lights use standard electrical mounts and communicate wirelessly with each other and with the gateway. The alarm is self-sufficient on power for 48 hours.

### If the alarm is triggered

At first the alarm warns by sending out a light and sound signal to warn off potential intruders. If they don't leave immediately, an alarm is sent to the driver and chosen recipients. This alarm will specify the position of the intrusion. At the same time, the lights signal by a wave of light and sound.

## Options

DC Fence can be combined with DataChassi's other products. Wireless communication is at the heart of our products and make them very adaptable to our customers' various needs.

- DC Safelog - portable alarm that is placed in the cargo area. An alarm is triggered if unauthorized movement is detected.
- DC Tankguard – alarm for the fuel tank.
- DC Access – used for communication between transport management and drivers. It also shows who has current responsibility for the transport.
- Very good possibilities for expansion - can be connected to transport management systems, (depending on make).
- External antennas.

Product contents	DRN side marker lights, quantity varies with each vehicle. Gateway, for communication to and from the vehicle, and DCS web based portal.
Electrical connection	24 V nominal, 8 - 32 V can be used.
Detection principle	Direction sensitive short range radar.
Radio communication	GSM and Zigbee®.
Battery	The battery in each DRN side marker light permit radio traffic even when the lights are switched off, for instance when the vehicle is parked overnight.
Light signals	When the alarm is triggered the lights start to blink to get attention.
Audio signals	A buzzer in each unit provides an alert after alarm is triggered.
Storlek (BxHxD)	110 mm x 60 mm x 46 mm
Vikt	170 grams
Garanti	1 year



DataChassi AB is owned by Volvo and CombiQ. The company bases its products on a patent where sidemarker lights are used as sensors with nodes for wireless communication. The product range includes products for security in the form of an electronic fence, as well as communication to and from sensors, irrespective of the location on the vehicle. DataChassi AB has quality and environment certificates ISO 9001 and ISO 14001.



**DataChassi AB**, Science Park, Gjuterigatan 9, SE-553 18 Jönköping, Sweden  
 Phone: +46 (0)36 332 08 20 | info@datachassi.com | [www.datachassi.com](http://www.datachassi.com)