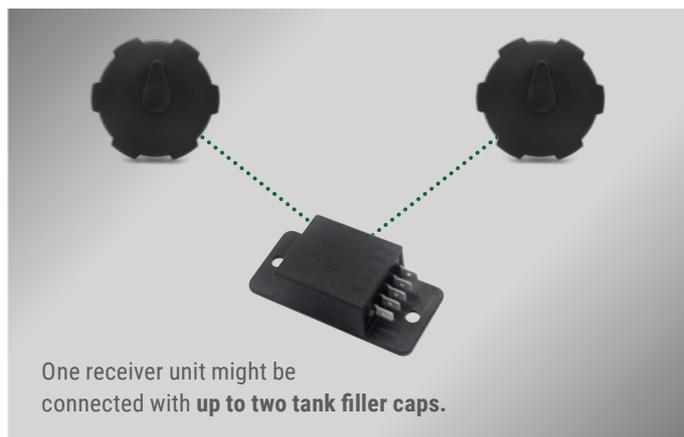


# ***SpyCap:** A protected fuel tank filler cap*

*A smart solution against fuel theft!*





*The first theft protected tank filler cap based on the original OEM cap.*

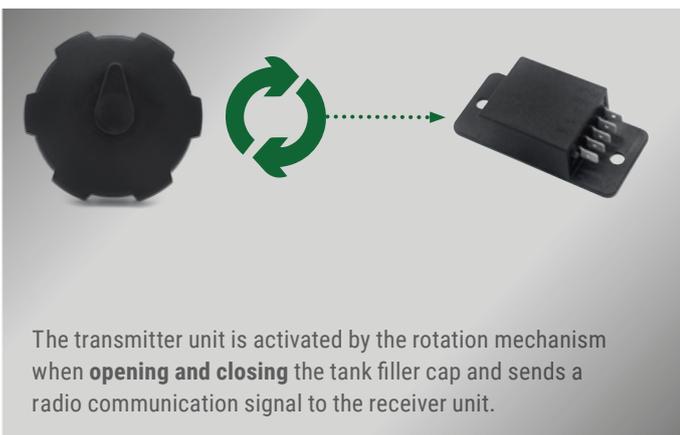


- ✓ SpyCap is the right tank filler cap for over 90% of all trucks on Europe's roads.
- ✓ SpyCap is equipped with a transmitter unit that registers all opening and closing processes and sends a signal to the receiver unit.
- ✓ SpyCap is visually indistinguishable from the serial cap. These are also manufactured at the European market leader REUTTER GmbH.
- ✓ SpyCap connected to a fleet management system may provide you multiple reports in order to understand, when and where the tank cap was opened.
- ✓ SpyCap is easy to install! No cables between the filler neck and the tank filler cap.

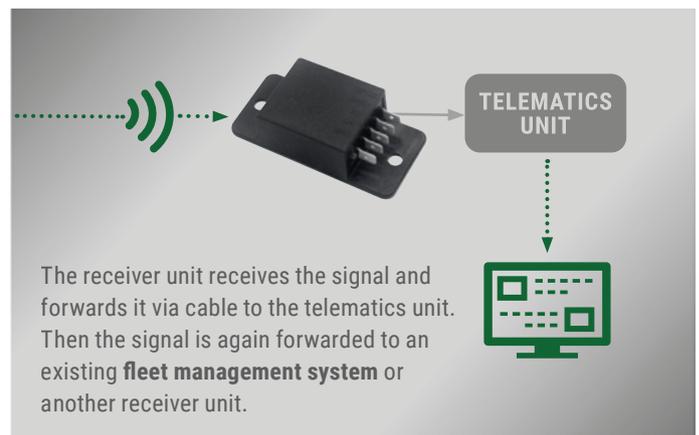
### Patented solution!



Produced in Europe.  
Developed in Germany.



The transmitter unit is activated by the rotation mechanism when **opening and closing** the tank filler cap and sends a radio communication signal to the receiver unit.



The receiver unit receives the signal and forwards it via cable to the telematics unit. Then the signal is again forwarded to an existing **fleet management system** or another receiver unit.

## Assembly and Connection

The receiver unit is designed for vehicles with an existing telematics unit and is not equipped with an own GPS or GSM interface. Moreover, it will be permanently connected to the vehicle's electrical system.

The Dieselsafe Receiver should be mounted inside the vehicle protected from permanent exposure to fuel, moisture and dust. It should not be mounted in completely closed metallic enclosures as this will prevent communication with the caps via the air interface.



## 2 Power Supply Voltage V+

	Min.	Typ	Max.
Power Supply Voltage / V	9	24	40
Current Consumption / mA	15	9	7

## 3 switch output S1

The Dieselsafe Receiver features a switch output for activating external local alarm units like LED lights or horns. The switch is rated 40V / 1A. The switch contact is normally open and closes to the positive supply (the voltage applied to contact 2 / V+) for 5s when an alarm occurs. It signalizes alarms from both cap 1 and cap 2. A 10k pull-down resistor ensures a well defined ground voltage in the state when the switch is open.

## 4 General Purpose IO GPIO1

This output signalizes alarms from cap 1. It interfaces to inputs of telematic control units. The output voltage is normally 0V. A 10k pull-down resistor is connected to the pin. In case an alarm occurs the pin is switched for 1 s to the on-board voltage supplied to pin 2. The switching is done by a low impedance solid state switch.

## 5 General Purpose IO GPIO2

This output signalizes alarms from cap 2. It interfaces to inputs of telematic control units. The output voltage is normally 0V. A 10k pull-down resistor is connected to the pin. In case an alarm occurs the pin is switched for 1 s to the on-board voltage supplied to pin 2. The switching is done by a low impedance solid state switch.

## 6 LED

The LED is a red/green duo color-LED placed besides the contacts of the Dieselsafe Receiver. It is used for verifying correct function in operating mode and for signalizing the recognition of caps during teach-in.



At an alarm from cap 1  
the green LED is lit for 5s.



At an alarm from cap 2  
the red LED is lit for 5s.

## Facts

### Patented solution!



Produced in Europe.  
Developed in Germany.



- **Battery Lifetime:** approx. 5 years or 15.000 openings
- **Tightness Specification of Cap:** tight up to 300 mbar on recommended interface
- **Field of Application:** developed for vehicles with telematics unit
- **Transmitter Range Cap:** outside approx. 100 m / drivers cab 15 m
- SpyCap has an already installed and non-replaceable battery.  
If the battery is empty, the cap must be replaced by a new one.  
The new cap can then easily be connected to the existing receiver unit.
- If the cap will be lost, it can be replaced with a new cap which can be connected to the existing receiving unit.
- The cap and the receiving unit can be delivered, based on the customer's requirements, in a connected or non-connected state.
- The sensors do not contain position or vibration sensors.  
Therefore, they are very robust and accidental activation can be avoided.
- The cap sends both opening and closing processes.
- Every tank filler cap has a unique electronic ID.
- The receiver unit can be connected to standard telematics units.

# SpyCap is suitable for the following manufacturers / OE reference numbers:

(We would also be happy to provide you with a detailed list of suitable vehicle models)



## Daimler

A 000 470 0405	A 000 470 5305	A 000 470 6305	A 000 470 6505
A 000 470 3505	A 000 470 5405	A 000 470 6405	A 940 470 0105
A 000 470 5205			



## MAN

81.12210-6034



## Volvo

20392751	22632143	3198271	22401537
20392752	20392749	8152630	22632137
20392753	1189577	85132554	
22335631	20392751	22335630	
22401537	21776807	22401536	



## Renault

22352235	50 01 834 430	50 01 864 551	50 01 865 160
74 85 132 554			



## DAF

1687521	1697735	0288491	288491
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## Our contact data

**Customers with an existing telematics unit  
(fleet management system provider) please contact:**

### **JOST Automotive GmbH**

Hans-Paul-Kaysser-Straße 10  
71397 Leutenbach  
Germany

Phone: +49 7195 95987-72  
Fax: +49 7195 95987-74  
Mail: [germany@jostautomotive.de](mailto:germany@jostautomotive.de)  
Website: [www.jostautomotive.de](http://www.jostautomotive.de)

Prices and availability on request.  
Please send orders by email to  
[order@jostautomotive.de](mailto:order@jostautomotive.de)



**Customers without an existing telematics unit  
or for individual solutions please contact:**

### **TruckGuard GmbH**

Niels-Bohr-Straße 5  
39106 Magdeburg  
Germany

Phone: +49 391 251 947 40  
Fax: +49 391 251 947 50  
Mail: [info@truckguard.net](mailto:info@truckguard.net)

Prices and availability on request.

