

The image shows the interior of a car, likely a luxury model, with a focus on the steering wheel and dashboard. The steering wheel is black with a silver center featuring a logo. The dashboard is black with a large infotainment screen displaying 'Radio 24' and '104.8'. The car has red accents on the dashboard and center console. The overall lighting is dark and moody.

**KEETEC®**

**2023**

**ADVANCED SECURITY SYSTEMS**

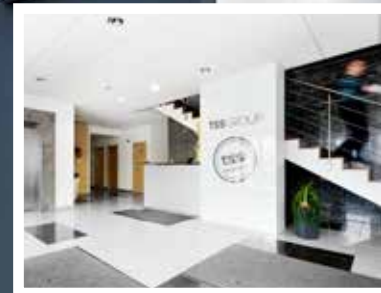
# ABOUT US **:TSS GROUP**

Our company focuses on development, production and sales in the area of property and vehicle security systems. We have been developing our business activities in the European market since 2002. As a 170-person company with turnover of €35 mil. we rank amongst the biggest companies in the area of security in Slovakia and the Czech Republic.

TSS Group is based in Dubnica nad Váhom, Slovakia and operates from a central warehouse with a stock worth €4 mil., which plays an important role in the whole logistical chain. Dynamic growth of our company resulted in the opening of 6 branch offices to support distribution of our products to over 30 European countries.







The vehicle security division is an important pillar of TSS Group. The objective of the division is to provide a comprehensive selection in the field of vehicle security and car accessories that increases the comfort to the customer. The registered brand name KEETEC is known in the Slovak as well as European market as a brand representing quality and reliability.

Together with other brands, TSS Group is one of the leaders in the European vehicle security market. The most important part of the vehicle security division is the internal team of programmers, which continuously work on new development solutions in the field of vehicle security. TSS Group provides high standard technical support, training and quality expert services to all its customers and business partners.



# THE KEETEC BRAND



**KEETEC®**

Many years of experience have led our team to establish a private brand of products in 2008. The registered brand name KEETEC is known in the European vehicle security market, as a strong brand representing quality and reliability.

Our tireless efforts to develop our work practices has become even more apparent in the creation of making our products. Car alarms, parking sensors, seat heaters that meet not only the requirements of demanding customers, but also the conditions for earning recognized Pan-European Certificates.

The most important part of the vehicle security division is the internal team of programmers who continuously work on new development solutions in the field of vehicle security. The core portfolio consists of self-developed CAN BUS technology, car alarms, immobilizers and GPS localization units.



# PRODUCT RANGE





# CAR SECURITY





**KEETEC®**

# SNIPER MAX

## GPS LOCATOR

The locator **SNIPER MAX** was designed for the advanced securing of personal and commercial vehicles. The value of this product is in reliable securing and immediately informing of the owner if the security is corrupted. The owner is informed almost in a second by a phone call and a text message about a disturbance of the secured vehicle.

The integrated tilt sensor takes care of securing the vehicle against wheel theft or towing. Control your new system by the modern app for iOS and Android. **SNIPER MAX** is a fully independent device which can be installed separately or in connections with any car alarm (Keetec BLADE, any genuine system in the vehicle).

The integrated battery lasts up to 3 hours after the disconnection of the vehicle battery.

**Dimensions:** 63 x 41 x 22 mm  
**Weight:** approx 50 g  
**Power supply:** 12/24 V  
**Output 1/2:** 300 mA

**Current consumption**  
GPS Protection: 26 mA  
In SLEEP mode: 17 mA  
**Backup battery:** built-in Li-On, 300 mA





**KEETEC®**

# SNIPER MAX CONTROL

## GPS LOCATOR

The **SNIPER MAX CONTROL** is an advanced version of the **SNIPER MAX** GPS system, supplemented by a module for vehicle owner authorisation.

The remote control KEETEC system has an extra long battery life, guaranteeing comfortable hands free control for up to 2 years, whilst at the same time boosting all levels of security.

The protected vehicle will be perfectly secured against theft without the need to use the system operation.

This dual combination is an ideal security solution for any vehicle using keyless access.

**Dimensions:** 63 x 41 x 22 mm  
**Weight:** approx 60g  
**Power supply:** 12/24 V  
**Output 1/2:** 300 mA

**Current consumption**  
GPS Protection: 36 mA  
In SLEEP mode: 27 mA  
**Backup battery:** built-in Li-On, 300 mA







# KEETEC®

## BLADE CAN BUS ALARM

Our modern, reliable, intuitive system of settings are synonymous with our system which can secure your personal or commercial vehicle with a choice of connection by CAN-BUS or analogue.

The new VALIDATOR function will provide additional system authorization for vehicles with “keyless” access. By entering a unique PIN-code through the original buttons in the vehicle’s interior (e.g. buttons on the steering wheel, electric window control, etc.), it is possible to confirm additionally, the unlocking of the vehicle or enable the start itself.

You can find installations schemes for particular brand and models right inside of the software for the setting of this device. Upgrading of the vehicle database on a monthly basis, so you are always able to install this device even into new vehicles.

**Dimensions:** 63 x 41 x 22mm  
**Weight:** approx. 50 g  
**Power supply:** 12/24 V

**Current consumption:** 2mA  
**Output 1/2:** 150 mA





# KEETEC®

## TS IMO IMMOBILIZER

Reliable vehicle protection in case of the unauthorized use. The **TS IMO** can immobilize any vehicle with 12V or 24V, regardless of brand or model. Enjoy the hands-free mode of elegant remote controllers with extra-long-lasting batteries that last up to 2 years. An integrated tilt sensor is an inseparable part of the **TS IMO** and a perfect way of securing the vehicle against wheel theft or towing.

If you are going to the garage or if you lose your remote controllers, do not be worried, you can deactivate the whole system with your unique plastic card. We have developed modern and intuitive software for easy and quick settings of this device, with the help of this software the **TS IMO** can be used even in the newest models of any vehicles

**Dimensions:** 63 x 41 x 22 mm  
**Weight:** approx. 60 g  
**Power supply:** 12/24 V

**Current consumption:** 2 mA  
**Blocking output 1/2:** 20 A  
**Additional outputs:** 100 mA





**KEETEC®**

# RIDER

## IMMOBILIZER

A simple yet extremely effective solution for the most modern vehicles equipped with a START/STOP button. The Keetec **RIDER** can reliably prevent unauthorized use of the start button without the authorization handle. Built-in relay blocking will ensure reliable functionality with zero energy consumption.

The most modern algorithm of the authorization key will guarantee troublefree operation of the form for more than 3 years.

**Dimensions:**  
**Weight:**  
**Power supply:**

67 x 20 x 13 mm  
approx. 14 g  
12/24 V

**Current consumption:** 5 mA  
**Blocking output:** 1 A







**KEETEC®**

# MISTRAL MAX 2

## CAR ALARM

The **Keetec Mistral Max** is an analog car alarm system designed for basic vehicle security.

Stylish remote control with a floating code security against signal copying are used to control the system.

The car alarm provides total protection for all doors, bonnet, luggage compartment and ignition. In case of triggered alarm, an acoustic signal is combined with the flashing hazard lights.

Security also includes a dual zone shock sensor to protect the vehicle from external impacts. Optionally, a motion or tilt sensor can be added for increased security.

**Dimensions:**

85 x 63 x 29 mm

**Weight:**

approx. 80 g

**Power supply:**

12 V

**Current consumption:**

15 mA

**Outputs current:**

250 mA



# KEETEC<sup>®</sup>

## ACCESSORIES

### UL 100

ULTRASONIC SENSOR



The ultrasonic motion sensor with adjustable sensitivity will ensure reliable protection in case of unwanted movement into the interiors of the protected vehicle. The detection of the intruder's movement causes an immediate alarm of the car alarm itself.

**Dimensions:** 42 x 32 x 13 mm  
**Weight:** approx. 20 g  
**Power supply:** 12 V  
**Current consumption:** 3-5 mA  
**Outputs current:** 100 mA

### MWS 2

MICROWAVE SENSOR



The microwave sensor is intended for protection in case of unwanted movement into the interiors of the protected vehicle. The immediate detection of movement in the protected zone will trigger the alarm of the car alarm itself. Microwave technology with adjustable sensitivity allows for use in convertible vehicles.

**Dimensions:** 52 x 42 x 25 mm  
**Weight:** approx. 20 g  
**Power supply:** 12 V  
**Current consumption:** 13,5 mA  
**Outputs current:** 100 mA

# KEETEC® ACCESSORIES

## LSK 2 SHOCK SENSOR



Shock sensor designed to protect the vehicle in the event of an unwanted impact. In case of detection of a shock of the protected vehicle, an acoustic alarm is signaled on the connected car alarm. Adjustable sensitivity will allow you to adapt the sensitivity to a specific vehicle.

**Dimensions:** 42 x 32 x 13 mm  
**Weight:** approx 20 g  
**Power supply:** 12 V  
**Current consumption:** 2 mA  
**Outputs current:** 100 mA

## TIL 500 TILT SENSOR



A modern vehicle tilt detector for securing the wheels and protecting the vehicle during an attempt to tow it away. A change in the inclination of the protected vehicle compared to the original position during parking will trigger an acoustic alarm on the connected car alarm.

**Dimensions:** 57 x 40 x 15 mm  
**Weight:** approx 40 g  
**Power supply:** 12 V  
**Current consumption:** 1,3 mA  
**Outputs current:** 100 mA



# KEETEC® ACCESSORIES

## AS 35 SIREN



Electronic siren for acoustic signaling of an alarm  
1- Tone, 120 dB, 20 W.

**Dimensions:** 56 x 80 x 72 mm  
**Weight:** approx 190 g  
**Power supply:** 12 V  
**Current consumption:** 0,8 A

## AR 103 BACKUP ELECTRONIC SIREN



Siren with built-in backup battery for an advanced  
level of security in case of mains power loss.  
1-Tone. 115 dB, 20 W.

**Dimensions:** 59 x 72 x 71 mm  
**Weight:** approx 190 g  
**Power supply:** 12 V  
**Current consumption:** 0,8 A

# CAN BUS MODULES





**KEETEC**<sup>®</sup>

## **M CAN** CAN BUS INTERFACE



The Keetec **M CAN** is an universal CAN bus interface designed for reading and writing data to CAN bus to vehicles with 12/24V power supply.

10 programmable wire inputs make it much easier to install additional devices such as a car alarm, parking sensors, audio system or taximeter. Function for START/STOP deactivation. More functions for reading information from CAN bus. Simple programming via Keetec Software, direct updating using the Micro USB connector.

## **TAXI CAN** SPEED CONVERTER



An electronic module designed to read the current vehicle speed through OBD2 and transform it into PWM signal which is used as an input signal for taximeters. Current speed of vehicle is converted from km per hour to impulse per second in three ratio conversion. Moreover, the **TAXI CAN** module provides information about status of ignition and low speed status signal. A detailed list of analog outputs can be found in the instructions for use.



# PARKING ASSISTS





**KEETEC®**

# BS 420

## DUAL-PURPOSE PARKING ASSIST

The parking system KEETEC with 4 ultrasonic sensors and a discreet buzzer with volume button on it. Option to install as rear or front parking assist.

After the reverse gear is engaged, automatic self test proceeds and the system is active. The buzzer warns the driver by acoustic signals, if the car approaches an obstacle of less than 1.5 meters in the rear.

Learning and Dual intelligent functions provide for a smooth operation of cars with a tow bar or spare wheel at the back of the vehicle. The system can be adjusted to reduced sensors sensitivity in case of low height installation. Excellent all weather performance, even under the heavy rain.

### AVAILABLE SENSORS



**black**  
18,5 mm



**inner black**  
16 mm



**adjustable  
inner black**  
16 mm



**KEETEC®**

## **BS 410 LCD**

### **REAR PARKING ASSIST**

The rear parking system KEETEC with 4 ultrasonic sensors and a LCD display with built-in speaker. After the reverse gear is engaged, automatic self test proceeds and the system is active. The display warns driver visually, by acoustic signals and by voice alerts if desirable. If an obstacle occurs within the range of 2.5 meters, the driver is notified visually. If the car approaches an obstacle of less than 1.5 meters, the acoustic signals are also received.

Learning and Dual intelligent functions provide for a smooth operation of cars with a tow bar or spare wheel at the back of the vehicle. The system can be adjusted to reduced sensors sensitivity in case of low height installation. Excellent all weather performance, even under the heavy rain.



### **AVAILABLE SENSORS**



**black**  
18,5 mm



**inner black**  
16 mm



**adjustable**  
**inner black**  
16 mm





**KEETEC®**

## **BS 410 LED**

### **REAR PARKING ASSIST**

The rear parking system KEETEC with 4 ultrasonic sensors and a LED display with built-in speaker. After the reverse gear is engaged, automatic self test proceeds and the system is active. The display warns driver visually, by acoustic signals and by voice alerts if desirable. If an obstacle occurs within the range of 2.5 meters, the driver is notified visually. If the car approaches an obstacle of less than 1.5 meters, the acoustic signals are also received.

The display is designed for dashboard or ceiling installation in the rear (mirror-reflection view). Learning and Dual intelligent functions provide for a smooth operation of cars with a tow bar or spare wheel at the back of the vehicle. The system can be adjusted to reduced sensors sensitivity in case of low height installation. Excellent all weather performance, even under the heavy rain.



### **AVAILABLE SENSORS**



**black**  
18,5 mm



**inner black**  
16 mm



**adjustable**  
**inner black**  
16 mm



# BS 420 LCD

## DUAL-PURPOSE PARKING ASSIST

The rear parking system KEETEC with 4 ultrasonic sensors and a LCD display with built-in speaker. Option to install as rear or front parking assist.

After the reverse gear is engaged, automatic self test proceeds and the system is active. The display warns driver visually, by acoustic signals and by voice alerts if desirable. If an obstacle occurs within the range of 2.5 meters, the driver is notified visually. If the car approaches an obstacle of less than 1.5 meters, the acoustic signals are also received.

Learning and Dual intelligent functions provide for a smooth operation of cars with a tow bar or spare wheel at the back of the vehicle. The system can be adjusted to reduced sensors sensitivity in case of low height installation. Excellent all weather performance, even under the heavy rain.



### AVAILABLE SENSORS



black  
18,5 mm



inner black  
16 mm



adjustable  
inner black  
16 mm



**KEETEC®**

# BS 810

## REAR AND FRONT PARKING ASSIST

The rear and front parking system KEETEC with 2 control units, 8 ultrasonic sensors and 2 buzzers with volume button on each. The system warns the driver by acoustic signals, if the car approaches an obstacle of less than 1.0 / 1.5 meters (front/rear). The rear sensors are active when reverse gear is engaged. The front sensors are active until the brake pedal is released and the preset delay time expires.

Self test function for both, front and rear sensors proceeds automatically. Learning and Dual intelligent functions provide for a smooth operation of cars with a tow bar or spare wheel at the back of the vehicle. The system can be adjusted to reduced sensors sensitivity in case of low height installation. Excellent all weather performance, even under the heavy rain.

### AVAILABLE SENSORS



**black**  
18,5 mm



**inner black**  
16 mm



**adjustable  
inner black**  
16 mm



# SEAT HEATING





**KEETEC®**

# CSH 1 / CSH 2

## CARBON SEAT HEATING

The carbon fibre seat heating system KEETEC has a dual-zone heating for soothing lower back pain and adding car seat comfort that works with textile or leather vehicle seats. Two (Low/High) or three levels (Low/Medium/High) for heating.

The advantage of the carbon heating is even heating distribution across the surface with automatic temperature regulation. Installation underneath the textile upholstery of the seat base and backrest part of the seat.

Customized length and shape of the heating surface to fit the shape and measures of a vehicle seat.



# XENON BULBS







**KEETEC®**

# **D1S / D2R / D2S / D3S / D4S**

## **HID XENON BULBS**

Xenon OEM replacement bulbs for HID equipped vehicles with D1S, D2S, D2R, D3S and D4S ballasts.

Followed EU Certificate standard ECE R99.

Quick start: Reach 20% of objective luminous flux within 0.8 seconds, while above 80% of objective luminous flux within 4 seconds.

Color temperature: 4300K or 6000K  
High luminous flux: 3000LM±200LM

2500-3000 hours long lifetime.



# **:TSS GROUP**

**everything better**

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