



Vivatar drive Premium

Smart Crash Detection



Vivatar drive is an intelligent system for crash detection in passenger cars. The Vivatar App in combination with the Vivatar drive plug increase driver safety and help speed up roadside assistance by sending notifications to the Emergency Assistant. The Premium Emergency Service is activated automatically and available 24/7.

The impact detection functionality can give you a reassuring feeling every time you or your relatives get behind the wheel.

FEATURES

- ▶ The Vivatar drive detects accidents of passenger cars and sends the information about the accident and its severity to the professional Bosch Emergency Assistant
- ▶ The information about the accident is sent via a notification from the app and via SMS if technically required
- ▶ The emergency message contains the location of the accident, your name, telephone number, details of the vehicle (if pre-deposited) and the severity of the accident
- ▶ Smartphone App available in the App Store and Google Play Store free of charge

BENEFITS FOR END CUSTOMERS

- ▶ Never drive alone – be covered by a professional emergency service when driving
- ▶ Retrofit the automatic emergency assistance even to older passenger cars
- ▶ Get professional emergency assistance in your language even outside your home country
- ▶ No additional or reoccurring service fee
- ▶ Emergency data such as diseases and allergies can be stored in the emergency passport
- ▶ Enhanced safety during car driving by notification using reliable Bosch
- ▶ Minimal installation effort and well known application for end customer, interaction through Smartphone App

CONDITIONS FOR APP

- ▶ Smartphone with Android version 6.0 or higher or with iOS version 11.0 or higher
- ▶ Access to the Google Play Store or Apple App Store
- ▶ Smartphone with Bluetooth 4.0 (L.E) or later.
- ▶ Mobile phone with a SIM card from a German mobile phone provider
- ▶ GPS function active
- ▶ Mobile data and roaming must be switched on

Vivatar drive only works if your vehicle is within the mobile phone service of Austria, Belgium, France, Germany, Great Britain, Italy, Ireland, Luxembourg, Netherlands, Spain, Switzerland or the United Kingdom and your smartphone can dial into one of the mobile phone networks in these countries.

The Vivatar drive plug transmits the crash values determined by sensors and algorithms to the smartphone. Bosch Connected Devices and Solutions GmbH (BCDS) has no influence whatsoever on the further processing and transmission of information in the smartphone (smartphone software errors, smartphone defects, etc.) and does not assume any warranty and/or liability in this respect.

Smartphones require data connections with a so-called back-end. This data connection is not the responsibility of BCDS. The same applies to the availability and functionality of further process steps (back-end, call center, availability of persons in the vehicle, etc.).

The detection of possible accidents is based on the crash values of the vehicle measured by the Vivatar drive plug and classified on a scale from 0 to 100. The Vivatar drive app determines the maximum crash value transmitted by the Vivatar drive plug and derives the severity of the impact on the vehicle ("accident severity") based on defined threshold values. However, the severity of the impact on the vehicle does not always correspond to the resulting severity of the impact on the vehicle occupants and other parties involved in the accident. This means, for example, that when determining average acceleration values and a resulting low accident severity, there may actually be severe impacts on those involved in the accident (example: a light rear-end collision in which a child is not wearing a seat belt). Accordingly, reverse scenarios cannot be ruled out (i.e. determined high accident severity without any injury to those involved). This restriction also applies to the direction of the forces resulting from the accident. Lateral collisions can result in serious injuries to all vehicle occupants, although only a low accident severity can be derived from the acceleration values.

The Vivatar drive plug has no knowledge of the environment in which it is used (e.g. Smart / Mercedes-Benz S-Class). Since the Vivatar drive plug does not know the environment in which it is used and is not connected to the vehicle CAN bus, it cannot provide vehicle-specific evaluations.

FEATURES

Sensing

Crash detection	Including crash severity
Motion sensor	3 Axis - Accelerometer BMA255
Temperature sensor	Included in motion sensor

Communication

Radio communication	Bluetooth® 4.0 (Smart, Low Energy)
Frequency	2400 - 2483.5 MHz
Max. transmission power	0.47 mW

Charging

USB Charger	1.5 A at 5 V (depending on temperature)
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User interface

LED	Green LED (find the blink codes in the section of 'LED behavior')
User interaction	Provided through Smartphone App

Mechanical

Dimensions of TEP120	69.6 mm x 33.9 mm x 33.9 mm
Weight	20g
12V car jack	Designed to fit into SAE J563 12 V socket*. No connection to CAN bus.



OPERATIONAL CONDITIONS AND RANGES

USB charging current	max 1.5 A
USB output voltage	max 5 V
Input voltage	8.0 ... 16.0 V
Nominal input voltage	12 V
Accelerometer measurement range	±16 g
Crash heaviness range	1 ... 100

Power consumption

Operating mode	Device paired, with load: 9.5 W Device paired, no load: 0.65 W Device unpaired, with load: 9.3 W Device unpaired, without load: 0.44 W
Sleep mode	0.11 W

Operating temperatures

No devices attached to USB port	-30 °C ... +75 °C
Device attached to USB port	Lower limit: -30 °C Upper limit: dependent on outside temperature and current consumption of attached device (see below)
Charging current at 5V depending on temperature: (all values are assumed to be constant, peak rates may differ)	1.2 A at 23 °C w. 12-13 V supply voltage 1.1 A at 23 °C w. 16.5 V supply voltage 1.1 A at 27 °C w. 12-13 V supply voltage

Operating humidity ranges	see storing conditions
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STORING CONDITIONS (PLUG)

Storing temperatures	Allowed storage conditions (1 year until use): -40 °C ... 10 °C: 7 h 10 °C ... 25 °C: 6132 h 25 °C ... 30 °C: 1752 h 30 °C ... 40 °C: 860 h 40 °C ... 90 °C: 7 h
Temperature range	-30 °C ... 75 °C (over 2 years lifetime)
Humidity	Allowed storage conditions (1 year until use + 2 years lifetime): 30 ... 60 %: 23700 h (90 % of lifetime) ≤ 80 %: 2600 h (10 % of lifetime)

ORDER AND PACKAGING (PLUG)

BOSCH part number	0273.600.129
BOSCH Software Function	Crash detection
Scope of delivery	Vivatar drive plug, Bosch Emergency Assistant, short manual, instruction manual
Documentation (available languages)	German

Quality and standards (PLUG)

Enclosure protection class	IP X0
Electrical protection class	Class III
ISO	Designed in Germany and manufactured in China according to ISO 9001 and ISO 50001 standard
Technical standards	EN 301489-1, EN 301489-17, EN 301489-34, EN 300328, EN 60950-1, EN 62479
CE	RE-Directive 2014/53/EU
WEEE	WEEE Registration DE-83475985
Certifications	CE (EU), FCC (US), IC (Canada), SRRC (China), IMDA (Singapore), MIC (Japan), ACMA (Australia), Bluetooth® Certification (Kenya; UL International Statement), WPC/ETA (India), CITC (Saudi Arabia), ICASA (South Africa) Ask us for certifications for other countries
Housing testing procedure	Drop test: 10 drops from 100 cm height on granite
Environmental	RoHS, REACH
LED behavior	LED blinking codes (continuous)
Off	TEP is off (no functionality available)
On	TEP120 connected & ready, no error set or recognized Mode 1 +2 crash detection active
3 s off - 1 s on	TEP is ready to connect; no Smartphone currently connected
0.5 s off - 0.5 s on	TEP120 is in error mode (see error codes chapter)
*Vivatar drive does not fit in Mazda 2, 3, 6, CX3, CX5, MX5 or Opel Corsa D 1.2	

GET IN CONTACT WITH US

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