USER MANUAL

for Retrofit eCall the smart collision detector TEP110

1. Conditions of use

To use the Retrofit eCall, your car must be equipped with a 12V power outlet socket or cigarette lighter (SAE J563). To ensure unrestricted functionality of the TEP110, the power socket should be in the driver's immediate field of vision, for example, in the center console. There should be sufficient space at the outlet to enable the insertion of the device. You will also need a smartphone with one of the following operating systems:

- Android from version 2.3.4
- » iOS from version 8 and iPhone from model 5

The device's USB charging socket delivers up to 1.5A charge current. Depending on the attached device and application situation the charging current to be delivered is regulated downwards up to 0.5A to prevent overheating.

When using the USB charging socket on the device for other devices, such as for example an external pavination system.

devices, such as for example an external navigation system, there may be limitations in the functionality of the external device (e.g. transmitting traffic reports). Please refer to your device manufacturer with regard to this matter.

The device is designed for operation without charging function for an operating temperature of - 30° C to + 75° C.

Please see further information in section 3 of this document.

2. Safety instructions

Use the device only in vehicles and in conjunction with a socket in the vehicle according to the standard SAE J563.

Check that the device is as deep as possible and firmly placed in the 12V power outlet socket. The contact springs in the base of unit apply a particularly strong clamping force and are executed asymmetrically. This should largely offset tolerances in the diameters of different devices. Do not use the device if it only sits loosely in the socket. If this is the case take the device out of service immediately and remove it from the 12V power outlet socket. Otherwise there is a danger that the device will not correctly recognize driving events properly or not at all. The device could also come loose, fall into the footwell and block one of the pedals. The device is always a safety risk if it is not used properly. For more information on proper use and how to insert the device please refer to the operating instructions. The device must be plugged directly into a socket that is installed permanently in the vehicle so that acceleration forces acting on the vehicle body are transmitted directly to the device and can be measured by it. The use of an intermediate adapter or connecting cable is not permitted.

If the USB charging function is used ensure that the device to be charged is connected to the device via a USB charging cable and not inserted directly into the socket (e.g. a USB flash drive). The unintentional leverage forces could cause the device to come loose, fall into the footwell and block one of the pedals or fail to properly detect driving events. Before each journey check the operability of the device.

Its LED should light up permanently and the smartphone app must not display a warning or error message.

If you have heated the cigarette lighter or another thermal device in the 12V socket, please leave approximately 1 minute time for the socket to cool down before inserting the device. Protect the device from moisture and observe the appropriate care instructions in Section 4.

If the vehicle must be started with an external jumper lead please remove the plug from the socket before starting to avoid any damage to the device.

Never open the device.

Ensure that children do not play with the device. Small parts could come loose and be swallowed by small children. The device may interfere with the operation of medical equipment (such as pacemakers). People with an implanted medical device should not remain in the vicinity of the device to rule out any potential hazard. If necessary make inquiries with manufacturer of the medical device to ascertain whether it is immune to external radio signals such as Bluetooth.

Always include the operating instructions if the device is passed to another person.

If the device has a partial or temporary fault take it completely out of service. The flawless and reliable operation of the device cannot be guaranteed if it is faulty.

3. System limitations

The device is designed without its own power supply. It is powered by the vehicle's power circuit. In severe accident situations it may happen that the power supply to the device is interrupted before it has transmitted the message to the smartphone. In this event the automatic emergency reporting will not work. In addition, a collision report will not be transmitted if the smartphone is destroyed as a result of an accident or if the smartphone battery is discharged. In exceptional cases, it may be the case that the device cannot accurately analyze the accident situation:

- Minor accident, however, unit has only detected driving over uneven ground or driving over the curb.
- » No accident, however the device reports minor accident.

This is due to the fact that the device does not know the location that it is installed in and acceleration forces vary greatly depending on the vehicle model, the load distribution and the direction of forces.

The acceleration values obtained allow a conclusion to be drawn about the accident severity. Nevertheless, cases cannot be excluded in which the device will report a "normal" accident and personal injury still occurs, (e.g., the occupant is not wearing a seatbelt, side impact) and vice versa. The collision indication system cannot prevent accidents, nor completely detect an accident, it merely represents a system to provide assistance in an accident situation.

The USB port supplies a charging current of up to 1.5A. It is capable of charging common smartphones, navigation devices and, for example, tablet PCs. However, the charging process may take longer than with power supply via the conventional accessories of the device being charged. The charging function is regulated depending on the temperature – the charging current is reduced if the temperature rises above a threshold value inside the device.

The device's service can also only be guaranteed if the smartphone can dial into a mobile network. The service will not work without adequate network coverage or an activated telephone contract.

If you have dialed into a foreign network the only available option is manual triggering. You are then connected to emergency services such as 911 or 112. If your insurer provides a service center abroad you will be connected with this service.

4. Care instructions

Only clean the device with a slightly damp cloth or an antistatic cloth. Do not use solvents or microfiber cloth. Never use a dry cloth, otherwise there is a risk of a static electric charge. The use of chemicals or household cleaners is prohibited because their contact with the device may result in changes in the surface.

- On contact with liquid:
- » Remove the device from the socket
- » Drain the liquid, pat the device dry
- Store the device for at least 72 hours in a dry, warm place (not an oven, microwave, etc.)

5. Open source software

The device contains software from Energy Micro AS, http://www.energymicro.com, Copyright 2012, that is used for setting the hardware functions and access to the hardware resources of the microprocessor used.

6. Trademarks

Android is a trademark of Google Inc.

Apple and iPhone are registered trademarks of Apple Inc.
iOS is a registered trademark of Cisco Systems, Inc.

Bluetooth is a registered trademark of Bluetooth SIG. Inc.

7. Device approval

- i. The device is approved for use in passenger vehicles with a risk category 112, under the Federal Republic of Germany.
- ii. Bosch Connected Devices and Solutions GmbH, hereby declare that this device meets the essential requirements and provisions of Directive 1999/5/EC and 2011/65/EU.

If required, a copy of the declaration of conformity can be viewed in section 10 of this document.

iii. Federal Communications Commission (FCC) Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

 Increase the separation between the equipment and receiver.

 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

 Consult the dealer or an experienced radio/TV technician for help.

iv. Industry Canada (IC) Notice

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference. and (2) this dévice must accept any interference, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi. même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme

NMB-003 du Canada.

8. WarrantyThe warranty for this product meets the legal requirements at the time of purchase.

9. Disposing of the device

All electrical and electronic devices must be disposed of separately from municipal waste through the official sites provide by the authorities.

The correct disposal and separate collection of old devices prevent potential harm to the environment and health. They are a precondition for recycling of used electrical and electronic devices. For more detailed information about disposal of your old device, please contact your city office, your waste disposal service or the company from which you bought the device.

10. EC Declaration of Conformity

Manufacturer: Bosch Connected Devices and Solutions GmbH

Tuebinger Strasse 123

72762 Reutlingen, Germany

Product type: Retrofit emergency call device

Product name: TEP110

We hereby declare that the product described above complies with the relevant clauses of the following directive(s):

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive 1999/5/EC (R&TTE Directive) on radio equipment and telecommunication terminal equipment

Any modification to the product not expressively approved by the manufacturer or any use for a purpose which is not intended and documented shall void the validity of this declaration.

The following harmonized standards have been applied:

Safety (Article 3.1.a of the R&TTE Directive) applied standard(s) **EN60950-1:2005** (2nd **Edition**)

+ EN 60950-1:2006+A11:2009

issue **2005**

+A1:2010+AC:2011+A12:2011

Electromagnetic compatibility (Article 3.1.b of the R&TTE Directive)

applied standard(s) ETSI EN 301 489-1 V1.9.1 issue 2011-09

ETSI EN 301 489-17 V2.2.1 issue 2012-09 ETSI EN 301 489-34 V1.4.1 issue 2013-05

Efficient use of the radio frequency spectrum (Article 3.2 of the R&TTE Directive)

applied standard(s) ETSI EN 300 328 V1.8.1 issue 2012-06

Maximum Permissible Exposure

applied standard(s) EN 62479 issue 2011

Place, date

Dieter Donis
Head of Engineering
Head of Controlling

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