

**User Manual**

**of the**

**Continental**

**Radio Frequency Transmitter**

**Model:**

**TXN4 (433.92 MHz)**

## User Manual of the TXN4 key

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### **1 General Product Information**

This document gives an overview of the different device operation modes of the key model TXN4. In this document the device is referenced as "key", even if the mechanical backup key might be separated from it.

#### **1.1 Trade mark**

Continental

#### **1.2 Brand**

Continental

#### **1.3 Manufacturer**

Continental Automotive GmbH  
Siemensstr. 12  
93055 Regensburg  
Germany

## 2 Operating modes

The key has three main operating modes which differ regarding of the signal transmitting with the RF:

- **Immo**            Immobilizer transponder mode
- **RKE**            Remote keyless functionality
- **PASE**           Passive key functionality

### 2.1 Immobilizer Transponder mode

When the key is operating as an immobilizer transponder, the communication is done via a "contact less interface" depending on a magnetic coupling.

### 2.2 Remote keyless functionality

#### 2.2.1 All key functions

This mode refers to use the key as a remote control unit to initiate actions on the vehicle such as open or close door latches. RF transmission depends on a user activating (a button pressing) on the key. During the button pressing the amount of telegrams are sent on the RF channel at 433.92 MHz.

A short valid button pressing results a sending of the minimum number of the RF telegrams.

If the duration of the button pressing extents the time required for transmitting the minimum amount of RF telegrams, additional telegrams will be sent until the button is released or a timeout of 10s is reached. This timeout function prevents the unintended transmission over the extended time periods in case of a button was fixed.

### 2.3 Passive key functionality

For passive key operation no user action on the key side is required. The trigger is delivered by the vehicle via an LF data telegram. When the key receives a valid LF message, it responds with two RF telegrams.

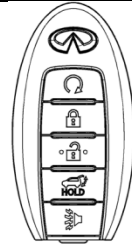
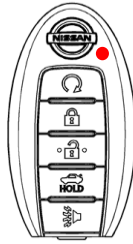
The Low Frequency stage operates at 125 kHz.

### 3 Button functions

The table below shows the functionality of the buttons.

	<i>First Button press</i>	<i>Press and hold Button</i>
Button <b>RES</b>	Remote Engine Start	
Button <b>Lock</b>	Lock vehicle	Comfort Close
Button <b>UnLock</b>	Unlock vehicle	Comfort Open
Button <b>Trunk</b>	Open trunk	Open trunk
Button <b>Panic</b>	Alarm signaling	

### 4 Key fob Variants

Product reference	Product variant	Drawing
S180144703	RES/Lock/Unlock/PBD/P 433.92 MHz	
S180144803	RES/Lock/ Unlock/Trunk/ Panic 433,92MHz	

## 5 Product Label Information model TXN4

### 5.1 EC



### 5.2 USA/Canada

Continental TXN4	Continental TXN4
S180144803	S180144703
FCC ID: KR5TXN4	FCC ID: KR5TXN4
IC:7812D-TXN4	IC:7812D-TXN4

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### 6.1 User Manual Canada

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

*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 device complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

*Le présent appareil est conforme à l'exposition aux radiations FCC / IC définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) et RSS-102 de la fréquence radio (RF) IC règles d'exposition. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.*

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.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003.

*Cet appareil numérique de classe B est conforme à la norme canadienne NMB-003.*

Continental Automotive GmbH has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

*Continental Automotive GmbH n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.*