

52 OPERATION

STANDBY

Ignition keys

 The indicator light for the radio-operated key flashes as long as the radio-operated key is being searched for.

If the radio-operated key or the spare key is detected, it goes out.

If the radio-operated key or the spare key is not detected, it lights up briefly.

You are provided with one radio-operated key and one spare key. If you lose your keys, refer to the notes regarding the electronic immobilizer (EWS) (→ 53).

Standby mode and the anti-theft alarm system are activated with the radio-operated key. The storage compartment locks and topcase can be operated manually.

 When the range of the radio-operated key is exceeded (e.g. in case of topcase), the vehicle cannot be started.

If the radio-operated key is still missing, standby will be turned off after approx. 1.5 minutes to protect the battery.

It is recommended to carry the radio-operated key directly on your person (e.g. in a jacket

pocket) and to also carry the spare key as an alternative.



Range of Keyless Ride
radio-operated key

Approx. 3.3 ft (Approx. 1 m)

Locking the steering lock Requirement

Handlebars are turned to the left. Radio-operated key is within reception area.



- Press and hold button **1**.
 - » Steering lock audibly locks.
 - » Standby mode, lights and all electrical circuits turned off.
- To unlock the steering lock, briefly press button **1**.

Turn on standby mode Requirement

Radio-operated key is within reception area.



- There are **two** variants for turning on standby mode.

Version 1:

- Briefly press button **1**.
 - » Parking lights and all function circuits are turned on.
 - » Pre-Ride-Check is carried out. (→ 120)
 - » ABS self-diagnosis is performed. (→ 121)

Version 2:

- Steering lock is locked, press and hold button **1**.
 - » Steering lock is unlocked.
 - » Parking lights and all function circuits are turned on.
 - » Pre-Ride-Check is carried out. (→ 120)
 - » ABS self-diagnosis is performed. (→ 121)

Standby turned off

Requirement

Radio-operated key is within reception area.



- There are **two** variants for turning off standby mode.

Version 1:

- Briefly press button **1**.
 - » Light is switched off.
 - » Steering lock is not locked.

Version 2:

- Turn handlebars to left.
- Press and hold button **1**.
 - » Light is switched off.
 - » Steering lock is locked.

EWS Electronic immobilizer

The motorcycle's electronic circuitry monitors the data stored in the ignition key through a ring antenna incorporated in the ignition lock. The engine control unit does not enable ride readiness until this key has been recognized as "authorized".



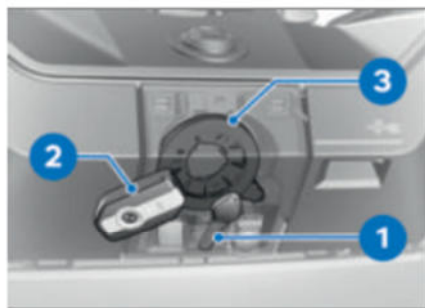
An additional radio-operated key attached to the same ring as the radio-operated key used to start the engine could "irritate" the electronics, in which case the en-

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abling signal for the engine start is not issued. Always keep the radio-operated keys separate from each other.

If you lose an ignition key, you can have it disabled by your authorized BMW Motorrad retailer. For this purpose, you must bring all of the motorcycle's remaining ignition keys with you. The engine can no longer be started by a disabled vehicle key; however, a disabled vehicle key can be enabled again. Spare keys are available only through an authorized BMW Motorrad retailer. The vehicle keys are part of an integrated safety system, so the retailer is under obligation to check the legitimacy of all applications for spare keys.

Battery of radio-operated key is dead or radio-operated key is lost



- If you lose your keys, refer to the notes regarding the electronic immobilizer (**EWS**).
- If you lose the radio-operated key while riding, you can start the vehicle by using the spare key.
- If the battery of the radio-operated key is dead, you can start the vehicle by touching the cover between the storage compartment flap and charging compartment flap with the radio-operated key.
- Hold the spare key **1** or the empty radio-operated key **2** against the cover between the storage compartment flap and charging compartment flap at the height of the antenna **3**.



Period in which ride readiness can be established. Then unlocking must be repeated.

30 s

- » Pre-Ride-Check is carried out.
- Radio-operated key was detected.
- Electrical machine can be started.

Replacing the battery of the radio-operated key

If the radio-operated key does not respond when a button is pressed for a short or long time:

- The battery for the radio-operated key is not charged to full capacity.



Remote key battery low. Limited central locking function. Change battery.



DANGER

Swallowing a battery

Risk of injury or death

- An ignition key contains a button cell as a battery. Batteries or button cells can be swallowed and cause severe or fatal injuries within two hours, e.g. due to internal burns or chemical burns.
- Keep ignition keys and batteries out of the reach (range) of children.
- If it is suspected that a battery or button cell has been swallowed or is inside a body part, seek medical attention immediately.

- Replace battery.



- Press button **1**.
- » Key bit folds open.
- Press battery cover **2** upward.
- Remove battery **3**.
- Dispose of the old battery in accordance with legal reg-

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ulations. Do not dispose of the battery in the household waste.



ATTENTION

Unsuitable or improperly inserted batteries

Component damage

- Use a battery compliant with the manufacturer's specifications.
 - When inserting the battery, make sure that the polarity is correct.
- Insert the new battery with the positive terminal facing up.



Battery type

For Keyless Ride radio-operated key

CR 2032

- Install battery cover **2**.
- » Red LED in instrument cluster blinks.
- » The radio-operated key is working again.

Keyless Ride

Vehicle keys

You are provided with two radio-operated keys and one emergency key. Should you lose your keys, refer to the information regarding the electronic immobilizer (EWS) (→ 44).

The ignition, tank filler cap, central locking and anti-theft alarm system are controlled with the radio-operated key. The seat lock, storage compartments, Topcase and case can be operated manually.



NOTICE

When the range of the radio-operated key is exceeded (e.g. in case or Topcase), the motorcycle cannot be started and the central locking system cannot be locked/unlocked.

If the range is exceeded, the ignition is switched off after approx.

1.5 minutes and the central locking system is **not** locked.

It is advisable to carry the radio-operated key directly on your person (e.g. in a jacket pocket) and to also carry the emergency key as an alternative. ◀



Range of Keyless Ride radio-operated key

Approx. 3.3 ft (Approx. 1 m)

Locking handlebars

Turn handlebars to left or right. Radio key is within reception range.



ATTENTION

Incorrect steering angle when the motorcycle is parked on the side stands.

Component damage caused by tipping over.

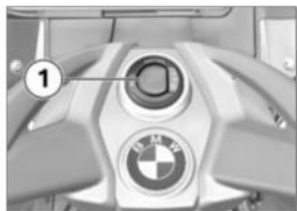
- On level ground, always turn the handlebars to the left to set the steering lock.
- Otherwise the angle of the ground determines whether the handlebars are set to the left or right. ◀
- Press and hold button 1.
- » Steering lock audibly locks.

- » Ignition, lights and all electrical circuits switched off.
- To unlock the steering lock, briefly press the button 1.

Switch on ignition

Radio key is within reception range.

- The ignition can be activated in two ways:



• Version 1

- Briefly press button 1.
- » Parking lamps and all function circuits switched on.
- » Engine can be started.

- » Pre-Ride Check in progress. (→ 79)
- » ABS self-diagnosis in progress. (→ 79)
- » DTC self-diagnosis is performed. (→ 80)

• Version 2

- Steering lock is locked, press and hold button 1.
- » Steering lock is unlocked.
- » Parking lamps and all function circuits switched on.
- » Engine can be started.
- » Pre-Ride Check in progress. (→ 79)
- » ABS self-diagnosis in progress. (→ 79)
- » DTC self-diagnosis is performed. (→ 80)

Switch off ignition

Radio key is within reception range.

- The ignition can be deactivated in two ways:



• Version 1

- Briefly press button 1.
- » Light is switched off.
- » Handlebars are not locked.
- » The windscreen automatically moves to the bottom limit position.

• Version 2

- Turn handlebars to full left or right lock position.
- Press and hold button 1.
- » Light is switched off.
- » Steering lock is locked.
- » The windscreen automatically moves to the bottom limit position.

Electronic immobilizer EWS

The motorcycle's electronic circuitry monitors the data stored in the radio key through a ring antenna incorporated in the radio lock. The engine management system does not enable engine starting until the radio key has been recognized as "authorized" for your motorcycle.

NOTICE

If a further key for the vehicle is attached to the same ring as the ignition key and used to start the engine, this could impair the electronics and prevent the engine start signal from being issued. The EWS warning is shown in the multifunction display.

Always store further vehicle keys separately from the ignition key. ◀

If you lose a radio key, you can have it disabled by your authorized BMW Motorrad retailer.

When having a key disabled you should also bring all of the motorcycle's remaining keys with you.

The engine can no longer be started using a disabled radio key; however, a disabled radio key can be enabled again.

Emergency and spare keys are only available through an authorized BMW Motorrad retailer. As the radio keys are part of an integrated security system, the retailer is under an obligation to check your legitimacy.

Central locking system Lock



- Switch on ignition (⇒ 43).
- Press button 1.
- Alternatively: Press button 2 on the remote control.
- » The storage compartments, both cases and the Topcase are locked.
- » These locks cannot subsequently be unlocked manually.
- The locked symbol appears on the display.
- » The functions of the remote control for the anti-theft alarm

are described in the corresponding section.

Unlocking



- Switch on ignition (⇒ 43).
- Press button 1.
- Alternatively: Briefly press button 2 on the remote control.
- » The two stowage compartments in the side panels, the cases and the topcase are unlocked.
- » Once a lock has been locked manually it subsequently has to be unlocked manually as well.
- » The functions of the remote control for the anti-theft alarm

are described in the corresponding section.

- » The ground lighting is switched on for a brief period.

Emergency unlocking

If the central locking system refuses to unlock, the cases can be opened manually as follows:

- Remove case (⇒ 105).



- First turn radio key in topcase lock 45° past LOCK position, then turn it to dot position and press in lock barrel.
- » The release lever pops open.



- Turn radio key in stowage-compartment lock 45° out past vertical position and press in lock barrel.
- » The stowage-compartment lid pops open.

Battery of radio-operated key is completely drained or radio-operated key has been lost

NOTICE

The antenna is located in front of the tank filler cap or under the tank cover. ◀

- Should you lose your keys, refer to the information regarding the electronic immobilizer (EWS).
- Should you lose the radio-operated key while driving, the vehicle can be started using the emergency key.
- If the battery of the radio-operated key is completely drained, the motorcycle can be started by touching the tank cover with the radio-operated key.



- Hold emergency key **1** or completely drained radio-operated

key **2** on tank cover over antenna **3**.



The engine must be started within the defined time.

30 s

- » Pre-Ride Check in progress.
- Key has been detected.
- Engine can be started.
- Starting the engine (→ 78).

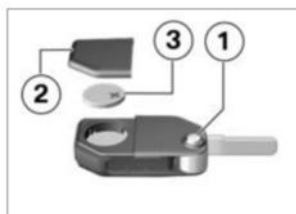
Replace battery of radio-operated key

If the radio-operated key fails to react when the button is pressed briefly or is pressed and held:

- The battery of the radio-operated key no longer has its full charging capacity.
- » Replace battery.



The battery symbol is displayed.



- Press button **1**.
- » Key bit folds open.
- Press battery cover **2** upward.
- Remove battery **3**.
- Dispose of the old battery in accordance with legal regulations. Do not dispose of the battery in the household waste.

ATTENTION

Unsuitable of improperly inserted batteries.

Component damage

- Use a battery compliant with the manufacturer's specifications.

- When inserting the battery, make sure that the polarity is correct. ◀
- Insert the new battery with the positive side up.



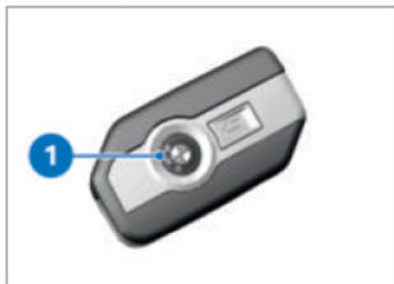
Battery type

for Keyless Ride radio-operated key

CR 2032

- Install seal **1** and battery cover **2**.
- » Red LED in instrument cluster flashes.
- » The remote-control is again ready to be used.

- » Confirmation tone sounds twice (if programmed).
- » Anti-theft alarm is active.
- with Keyless Ride^{OE}



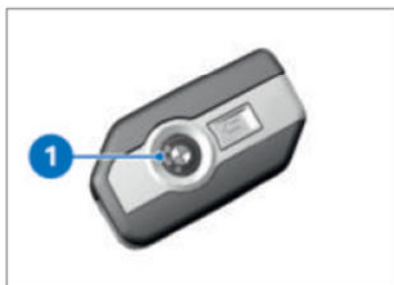
- Switch off the ignition.
- Press button 1 on the radio-operated key twice.
- » Activation takes approximately 30 seconds to complete.
- » Turn indicators flash twice.
- » Confirmation tone sounds twice (if programmed).
- » Anti-theft alarm is active.

ANTI-THEFT ALARM (DWA)

Activation

—with anti-theft alarm (DWA)^{OE}

- Switch on the ignition (➡ 62).
- Customising anti-theft alarm settings (➡ 91).
- Switch off the ignition.
- » If the alarm system is activated, then the alarm system will be automatically activated when the ignition is switched off.
- » Activation takes approximately 30 seconds to complete.
- » Turn indicators flash twice.



- To deactivate the motion sensor (for example if you are about to transport the motorcycle on a train and the swaying movement of the moving train could trip the alarm),

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press button **1** on the radio-operated key again during the activation phase.

- » Turn indicators flash three times.
- » Confirmation tone sounds three times (if programmed).
- » Motion sensor has been deactivated.◀

Alarm signal

—with anti-theft alarm (DWA)^{OE}

A DWA alarm can be triggered by:

- Motion sensor
- Switch-on attempt with an unauthorised vehicle key.
- Disconnection of the DWA anti-theft alarm from the motorcycle's battery (DWA internal battery in the anti-theft alarm provides power - acoustic alarm only, the turn indicators do not flash)

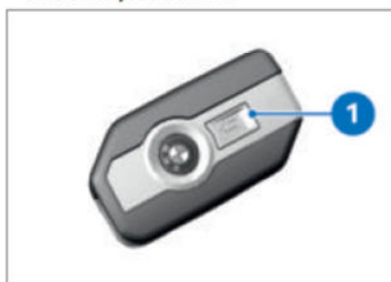
—with Keyless Ride^{OE}

 When the radio-operated key is within range, an alarm triggered by the tilt sensor is suppressed.◀

All functions are sustained even if the internal battery of the DWA anti-theft alarm system is flat; the only difference is that an alarm cannot be triggered if the system is disconnected from the motorcycle's battery.

An alarm lasts for approximately 26 seconds. While an alarm is in progress an alarm tone sounds and the turn indicators flash. The type of acoustic alarm tone can be set by an authorised BMW Motorrad retailer.

—with Keyless Ride^{OE}



You can cancel an alarm at any time by pressing button **1** on the radio-operated key; this does not deactivate the alarm system.

If an alarm was triggered while the motorcycle was unattended, the rider is notified accordingly by an alarm tone sounding once when the ignition is switched on. The DWA LED then indicates the reason for the alarm for one minute.

Light signals issued by the DWA LED:

- Flashes 1x: Motion sensor 1
- Flashes 2x: Motion sensor 2
- Flashes 3x: Ignition switched on with unauthorised vehicle key
- Flashes 4x: Disconnection of the anti-theft alarm from the vehicle's battery
- Flashes 5x: Motion sensor 3

Deactivation

-with anti-theft alarm (DWA)^{OE}

- Kill switch in operating position (run).
- Switch on the ignition.
 - » Turn indicators flash once.
 - » Confirmation tone sounds once (if programmed).
 - » DWA has been switched off.
- with Keyless Ride^{OE}

switched on, the alarm function is automatically re-activated after approx. 30 seconds if "Activation after ignition off" is programmed.

- » Turn indicators flash once.
- » Confirmation tone sounds once (if programmed).
- » DWA has been switched off.◁



- Press button 1 on the radio-operated key once.

 When the alarm function is deactivated with the radio-operated key and the ignition is not subsequently

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obligation to check the legitimacy of all applications for replacement/extra keys.

IGNITION WITH KEYLESS RIDE

—with Keyless Ride^{OE}

Keys

 The telltale light for the radio-operated key flashes while the search for the radio-operated key is in progress. The light goes out as soon as the radio-operated key or the emergency key is found. The light goes out briefly if the search times out without the radio-operated key or the emergency key being found.

You receive one radio-operated key and one spare key. If a key is lost or mislaid, consult the notes on the electronic immobiliser (EWS) (→ 63). Ignition, fuel filler cap and anti-theft alarm system all work with the radio-operated key. Seat lock, topcase and cases can be locked and unlocked manually.

 The vehicle cannot be started if the radio control key is not within range (e.g. key inside one of the cases or the topcase). If the radio-operated key re-

mains out of range, the ignition is switched off after about 1.5 minutes to protect the battery. It is advisable to keep the radio-operated key on your person (e.g. in a jacket pocket) and to have the emergency key with you as an alternative.



Range of the Keyless Ride radio-operated key

—with Keyless Ride^{OE}

approx. 1 m

Engaging steering lock Requirement

Handlebars are turned to the left. Radio-operated key is within range.



- Press and hold down button 1.
- » The steering lock engages with an audible click.
- » Ignition, lights and all function circuits switched off.
- Short-press button 1 to disengage the steering lock.

Switching on ignition

Requirement

Radio-operated key is within range.



- There are **two** ways of activating the ignition.

Version 1:

- Short-press button **1**.
 - » Side lights and all function circuits are switched on.
 - with daytime riding light^{OE}
 - » Daytime riding light is switched on.◁
 - with additional headlight^{OE}
 - » Auxiliary headlights are switched on.◁
 - » Pre-Ride-Check is performed. (141)
 - » ABS self-diagnosis is in progress. (141)

Version 2:

- Steering lock is engaged; press and hold down button **1**.
 - » The steering lock disengages.
 - » Side lights and all function circuits switched on.

- » Pre-Ride-Check is performed. (141)
- » ABS self-diagnosis is in progress. (141)

Switching off ignition

Requirement

Radio-operated key is within range.



- There are **two** ways of deactivating the ignition.

Version 1:

- Short-press button **1**.
 - » Light is switched off.
 - » Handlebars (steering lock) are not locked.

Version 2:

- Turn the handlebars all the way to the left.
- Press and hold down button **1**.
 - » Light is switched off.
 - » The steering lock engages.

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Electronic immobiliser EWS

The on-board electronics access the data saved in the radio-operated key via a ring aerial in the R/C ignition lock. The ignition is not enabled for starting until the engine control unit has recognised the radio-operated key as "authorised" for your motorcycle.

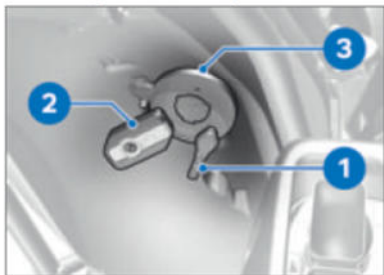
 A second radio-operated key attached to the same ring as the radio-operated key used to start the engine could "irritate" the electronics, in which case the enabling signal for starting is not issued. Always keep the radio-operated keys separate from each other.

If you lose a radio-operated key, you can have it barred by your authorised BMW Motorrad retailer. If you wish to do this, you will need to bring all other keys for the motorcycle with you.

The engine cannot be started by a barred radio-operated key, but a radio-operated key that has been barred can subsequently be reactivated. You can obtain extra keys only through an authorised BMW Motorrad retailer. The radio-operated keys are part

of an integrated security system, so the retailer is under an obligation to check the legitimacy of all applications for replacement/extra keys.

Battery of the radio-operated key is empty or loss of the radio-operated key



- If a key is lost or mislaid, consult the notes on the electronic immobiliser (**EWS**).
- If you happen to lose or mislay the radio-operated key while on a journey, you can start the vehicle with the spare key.
- If the battery of the radio-operated key is empty, the engine can be started by touching the radio-operated key against the rear-wheel cover.
- Hold spare key **1** or radio-operated key with empty battery **2** against the rear wheel cover at the location of aerial **3**.

 The spare key or the radio-operated key with the empty battery must be **in contact with** the rear-wheel cover.



Time during which the engine has to be started. The unlocking procedure has to be repeated if this time is allowed to expire.

30 s

- » Pre-Ride-Check is performed.
- Radio-operated key has been recognised.
- Engine can be started.
- Start the engine (→ 140).

Replacing battery of radio-operated key

If the radio-operated key does not react when you short-press or long-press a button:

- Battery of the radio-operated key is not at full capacity.



Remote key battery weak. Limited central locking function. Change battery.



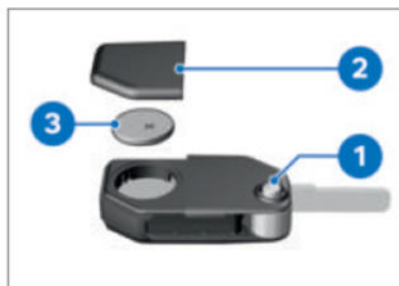
DANGER

Swallowing a battery

Risk of injury or death

- An ignition key contains a button cell as its battery. Batteries or button cells, if swallowed, can cause serious or fatal injury within two hours, for example resulting from internal burns or caustic action.
- Keep ignition keys and batteries out of reach of children.
- If there is any suspicion that a battery or button cell has been swallowed or is inside a part of the body, seek medical assistance immediately.

- Change the battery.



- Press button **1**.
 - » Key bit flips out.
- Push battery cover **2** up.
- Remove battery **3**.

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- Dispose of the old battery in accordance with all applicable laws and regulations; do not attempt to dispose of batteries as domestic waste.



ATTENTION

Unsuitable or incorrectly inserted batteries

Component damage

- Use a battery compliant with the manufacturer's specifications.
 - When inserting the battery, always make sure polarity is correct.
- Insert the new battery with the positive terminal up.



Battery type

For Keyless Ride radio-operated key

CR 2032

- Install battery cover **2**.
- » Red LED in the instrument cluster flashes.
- » The radio-operated key is again ready for use.

Keyless Ride Key (HUF5794)

Canada

This device complies with part 15 of the FCC Rules and 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 device must accept any interference received, 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.

USA

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.

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

EU & EFTA *(in country specific language)*



Hereby, Huf Hüsbeck & Fürst GmbH & Co. KG declares that the radio equipment type HUF5794 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: **bmw-motorrad.com/certification**

Frequency band: 433,92 MHz
Maximum Transmission Power: 10 mW

Manufacturer:
Huf Hüsbeck & Fürst GmbH & Co. KG
Steeger Str. 17
42551 Velbert
Germany



Brand:	BMW
Product name:	Keyless Ride Key
FCC ID:	YGOHUF5794
IC:	4008C-HUF5794

Keyless Ride ECU (HUF8485)

Canada

This device complies with part 15 of the FCC Rules and 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 device must accept any interference received, including interference that may cause undesired operation.

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USA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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EU & EFTA *(in country specific language)*



Hereby, Huf Hüsbeck & Fürst GmbH & Co. KG declares that the radio equipment type HUF8485 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: **bmw-motorrad.com/certification**

Frequency band: 134,42 kHz

Maximum Transmission Power: 42 dBμA/m

Manufacturer:

Huf Hüsbeck & Fürst GmbH & Co. KG
Steege Str. 17
42551 Velbert
Germany



Brand:	BMW
Product name:	Keyless Ride ECU
FCC ID:	YGOHUF8485
IC:	4008C-HUF8485