Technical Description

and

User's Manual

of the

HUF7059

Huf Hülsbeck & Fürst

Technical Description and User's Manual of the RRNM-IDG

Contents

1 General operation of the HUF7059

The RF remote control consists of an RF transceiver. The HUF7059 is used to transmit the information for locking or unlocking the vehicle by a bi-directional RF transmission for normal remote operation by pressing a button and via a LF Wake-up.

In general, the following functions are provided:
- Lock the vehicle
- Unlock the vehicle
- Unlock the vehicle's trunk
- Activate special function
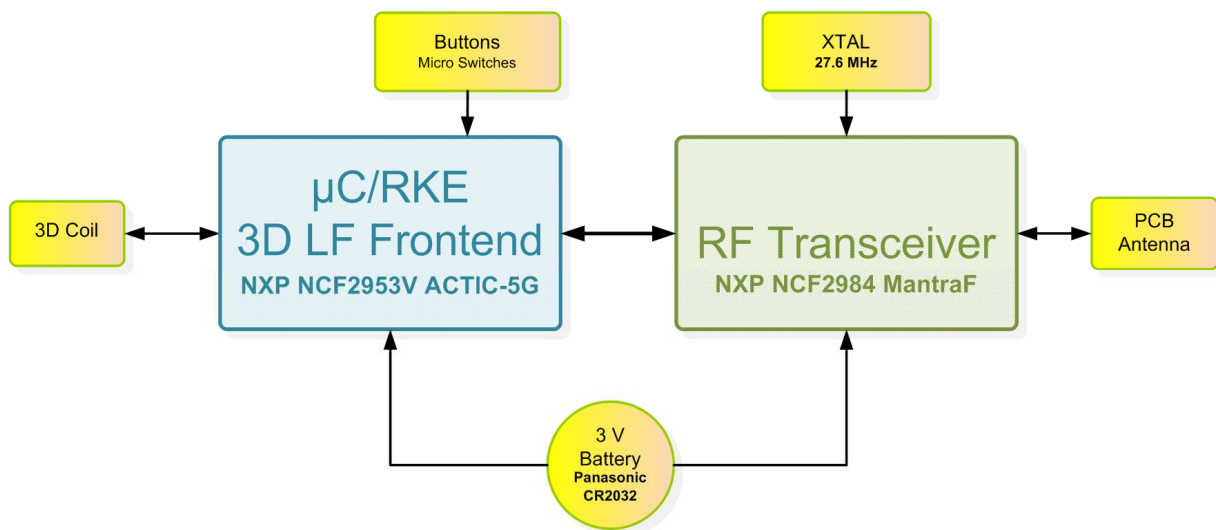- Engine start of the car (via passive function)

For emergency start – when the battery power is too low – the HUF7059 has a bi-directional LF-Transponder interface.

2 Operating frequencies of RF transmission

Channel 1	Channel 2
433.20 MHz	434.64 MHz

3 Block diagram

General overview:

4 Technical data

Dimensions (with inserted emergency key): ca. 83 mm x 43 mm x 17 mm
Weight (including emergency key):   ca. 89 g

4.1 Electrical characteristics

Power supply:		Battery type CR2032
Supply voltage:	Maximum	3.2 V
	Minimum	1.7 V
Type of battery:		Manganese dioxide lithium
Temperature range:		-10 °C … +60 °C (Remote function, due to battery limits)
		-40 °C … +85 °C (Transponder function)

4.2 General RF specification

Carrier frequency: 433.20 / 434.64 MHz
Transmission power: max. -17 dBm

Type of modulation: FSK

Type of RF antenna: PCB loop antenna

4.3 Disposal

An old battery must be lodged at a collection point or the service.

5 Declaration of Conformity, product Label

5.1 Radio equipment authorization to FCC in USA

FCC ID: YGOHUF7059

According to 47 CFR 15.19 (labelling requirements) the car manufacturer will print the following text in the appropriate User's Manual of the car:

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.

Usually this is followed by the following FCC caution:
Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

5.2 Radio equipment authorization to RSS-210 in Canada

IC ID: 4008C-HUF7059

According to RSS-210 (labelling requirements) the car manufacturer will print the following text in the appropriate User's Manual of the car:

This device complies with Industry Canada licence-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, mêmesi le brouillage est susceptible d'en compromettre le fonctionnement.

Usually this is followed by the following RSS caution:
Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

5.3 Location of product label

The product label with FCC ID and IC certification number can be found on the ID device underneath the leather cover.

5.4 Examples for homologation marking