

User Manual / Functional Description

of the

Siemens VDO

Radio Frequency Transmitter

type 5WK4 9123

General description of the RF transmitter

The RF remote control system consists of a RF transmitter and a RF receiver mounted within the control unit. The RF transmitter is mechanically integrated in the head of the key. This transmitter is used to transmit an information for locking or unlocking the vehicle by an unidirectional RF transmission line for normal remote operation by pressing a button.

In general the following functions are provided:

- Lock the car
- Unlock the car
- Unlock the trunk of the car

Power supply

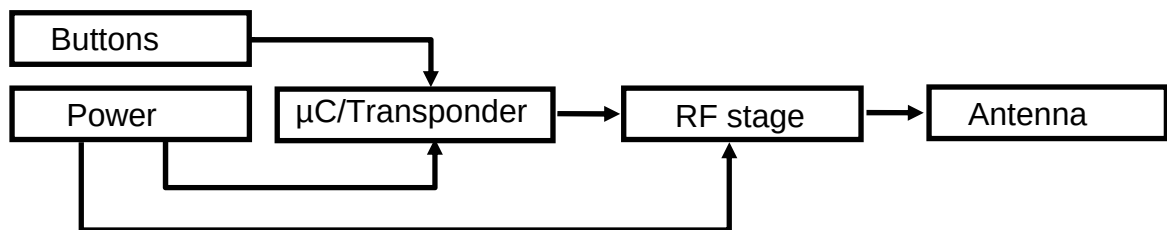
The transmitter is provided with 1 Lithium Akku (VL 2020) that gives a tension of feeding of +3V.

Buttons

There are three buttons which enable to lock and unlock the doors and to unlock the trunk.

During activation, the button is forced to the ground via a "pull-up" within the microcontroller.

Block diagram of the transmitter



Technical Data:

Carrier frequency	315.0 MHz $\pm$ 0.05%
Output power/field strength:	< 10 mW
Type of modulation:	FSK
Method of frequency generation:	PLL
Number of channels:	1
Power supply:	akku (VL 2020)
Type of battery:	lithium
Transmission range:	< 10 m

Label design

USA/CAN:

Siemens VDO
5WK4 9123
IC: 267T-5WK49123
FCC ID:KR55WK49123

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 interference that may cause undesired operation.