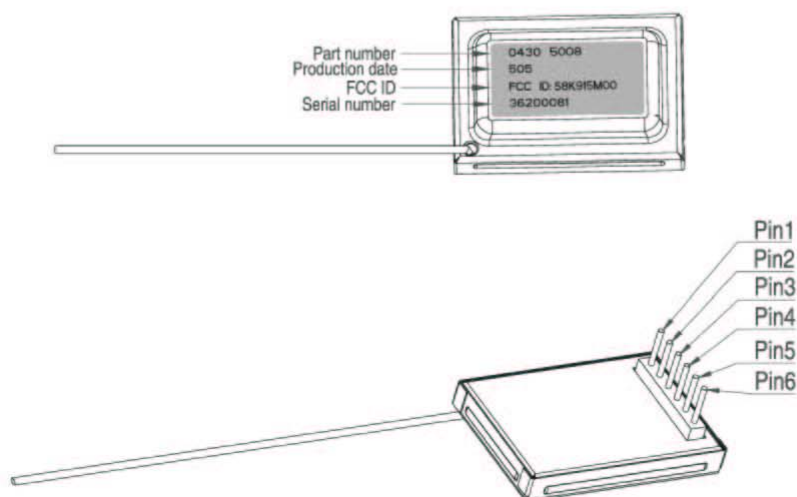| **Prüfbericht - Nr.:**	**14007815 003**	Seite 4 von 5
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915.00 MHz FSK TX Module Instruction Manual

Product specification

- Antenna: cupper wire, 82 mm long.
- Frequency: 915.00 MHz
- Modulation: FSK (fc +/- 50kHz)
- Current consumption during transmission: Max 15mA
- Current consumption in sleep mode: Max 10uA
- Power supply: DC 3.5 to 9.0V
- Transmission power: -10 ~ 5dBm
- Transmission rate: 7.6 to 9.2 k bit/s
- Wake up time: 4ms
- Operating temperature: -20C to 60C
- Frequency accuracy: +/- 30kHz
- Storage temperature: -40C to 70C

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Pin assignment
- Pin 1:   V+ (Power supply)
- Pin 2:   GND
- Pin 3:   ENABLE
- Pin 4:   PA_ENABLE
- Pin 5:   DATA
- Pin 6:   Not connected

Communication protocol:
- Manchester coding must be used.
- Positive edge for data bit 0 and negative edge for data bit 1.
- Data bit rate: 4.0k ~ 4.4k data bit/s.
- 16 bits preburst must be used, all bits are 0, that is 0x0000. Preburst must be transmitted first before transmitting the data.
- Preburst bits are only used to wake up and synchronize the RF receiving IC.
- Transmit sequence is LS byte first and LS bit first.

Transmission procedures:
1. Switch on power supply to TX module.
2. Set pin 3 (ENABLE) to high.
3. Wait 4ms.
4. Set pin 4 (PA_ENABLE) to high.
5. Send out data in pin 5 (DATA) in Manchester code.
6. Set pin 3, 4 and 5 (PA_ENABLE, ENABLE and DATA) to low.
7. Switch off power supply to TX module.

Installation guide:
- Remove all the power supply on the final product.
- The transmitter module shall be installed in the final product with the pin allocations on the socket matching with the module pins.
- The installation of the module is completed and please assemble the cover before use.

If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed will display a label referring to the enclosed module, such as "Contains FCC ID S8K915M00".

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

-------- End --------