1. Technical description

1.1 System Description

1.1.1 Frequencies, power

Bluetooth Low Energy f=2402MHz ÷ 2480MHz
Maximum transmitter output power -9,8dBm

1.1.2 Functional description

Wireless Seat Belt Reminder is a system which allows in vehicle wireless data collection of car seats with respect to seat occupation and seat belt buckle state. The system is able to collect data from a position up to 6 seats, with a possible future extension to a higher number of seats is possible. Wireless data transmission is performed with low energy Bluetooth.

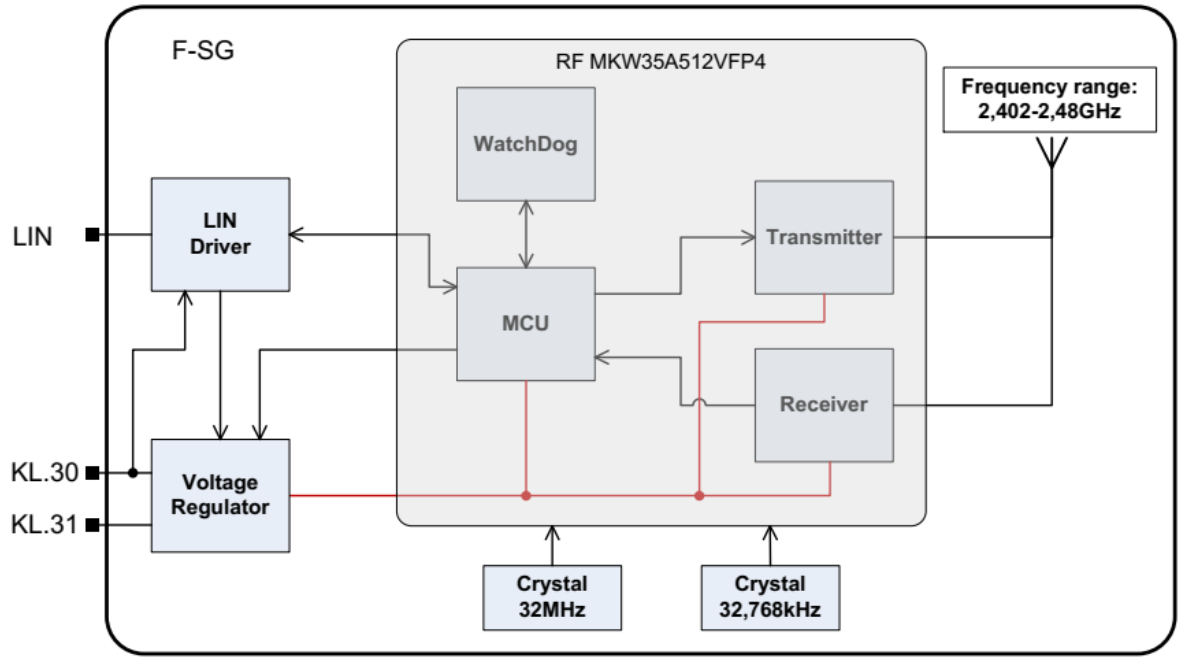

Image1 F-SG

The device connected to the vehicle F-SG 2K7959760B is firmly connected to the power supply terminal 30. The data on the vehicle are transmitted via LIN communication. If the LIN communication is enabled, the current status of the S-SG in the seats are sent to the vehicle. F-SG works in a continuous scan mode and receiving dates. The dates are received only from registered S-SG in the car seats. Registration is done via the LIN diagnostic protocol. If the LIN communication is inactive, the vehicle is in the idle state, the processor is in the sleep mode, the receiver is in a continuous scan mode and receiving dates.

1.1.3 Temparature or voltage operating range

temperature:	-40°C ÷ +80°C
voltage:	9V - 16V

The manufacturer of this radio equipment declare that devicecomply with the ISED regulation:
IC: 25953-WSBRC001

NOTICE:
This device complies with Part 15 of the FCC Rules [and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's 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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTICE:
Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.