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Homologation markings and user manual phrases for FRGEN21

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1 Scope

This document is a homologation markings and user manual phrases for FRGEN21 radar sensor. It is intended for external distribution to the Radio Frequency type approvals and internal distribution for preparing

2 Definitions and Acronyms

Acronym / Term	Full Form / Definition
ECE	Economic Commission for Europe
EU	European Union
FCC	Federal Communications Commission
HW	Hardware
ISED	Innovation, Science and Economic Development
RED	Radio Equipment Directive
SW	Software
UK	United Kingdom
UN	United Nations

3 Document history

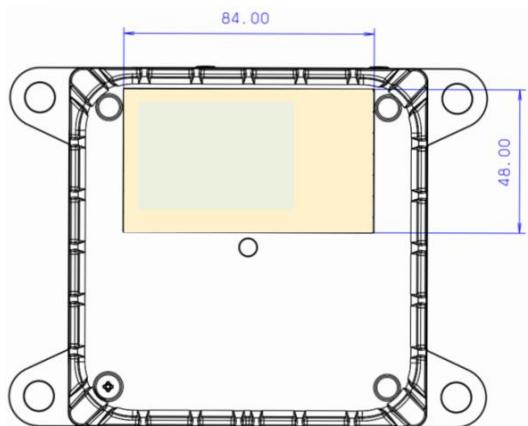
Revision	Date	Author	Changelog
1.0	21.03.2022	R. Kucharzyk	Initial Version



4 Label position

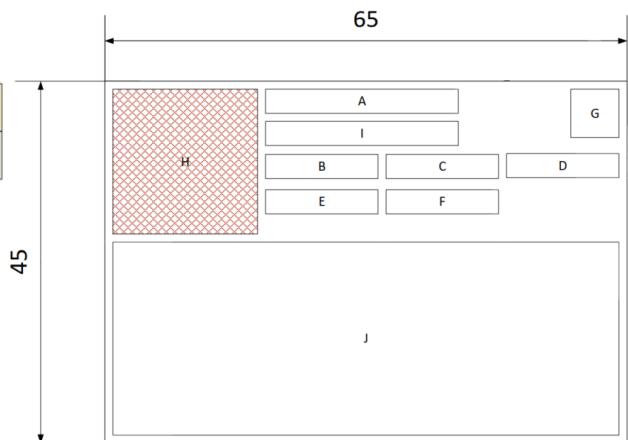
The label will be laser-engraved on the radar sensor front housing.

Label location:



maximum labelling area:
84mm by 48mm
Example Label size:
65mm by 45mm

Example label



4.1 Label with example data:



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5 Homologation markings

5.1 General information

5.1.1 Company name

(Remark: European laws require the company address of the company which places the product on the European market)

ZF AUTOCRUISE FRANCE SAS or ZF trade mark

Size requirement: Readable and visible

5.1.2 Address

760 AVENUE DU TECHNOPOLE
29280 PLOUZANE, FRANCE

Size requirement: Readable and visible

5.1.3 Model name

FRGEN21

Size requirement: Readable and visible

5.1.4 Country of origin

MADE IN CHINA

Size requirement: Readable and visible

5.1.5 China additional markings

ZF China company name will be applied on the sensor for radars selling in China market close the CMIIIT ID (point 7.2.5).

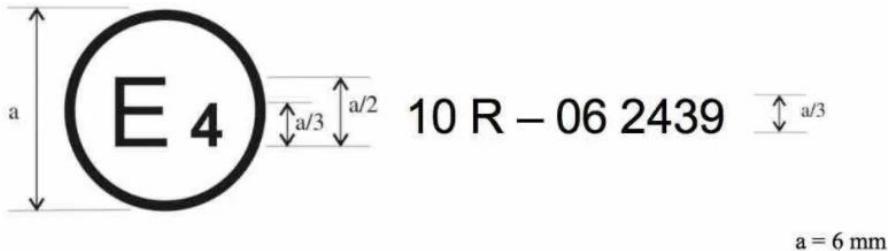
采埃孚汽车系统(上海)有限公司

Size requirement: Readable and visible

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5.1.6 Certification mark for homologation according to UN ECE Regulation 10th

Once homologation is granted for FRGEN21 the following certification number (number to be added when certificate is obtained), has to be labelled on the product on the product.



Size requirement: according to above picture

5.2 Country specific markings

5.2.1 United States

Once FCC approval is granted for FRGEN21, the following FCC ID has to be included in the vehicle user manual and labelled on the product.

FCC ID: S91-FRGEN21

Size requirement: readable and visible

5.2.2 Canada

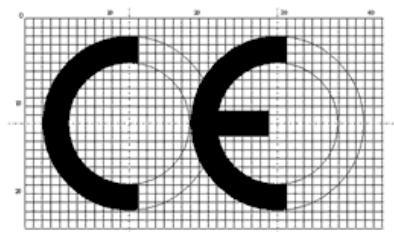
Once Canada approval is granted for FRGEN21 the following ISED certification number, has to be included in the vehicle user manual and labelled on the product on the product.

IC: 5860A-FRGEN21

Size requirement: readable and visible

5.2.3 Europe

The European homologation mark will be applied on the sensor. European homologation mark according to RED 2014/53/EU.



Size requirement: 5 mm

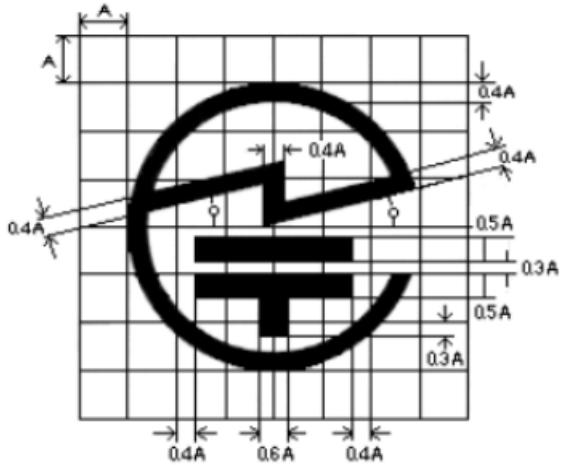


5.2.4 Japan

Once Japan approval is granted for FRGEN21 the following certification number (number to be added when certificate is obtained), has to be labelled on the product on the product.



R XXX - ABCDEF



Size requirement: The size shall be 5 mm or more in diameter (3 mm or more in diameter in the case of radio equipment having a volume of 100 cc or less).

5.2.5 China

Once China approval is granted for FRGEN21 the following certification number (number to be added when certificate is obtained), has to be labelled on the product on the product.

CMIIT ID: XXXXXXXXXX

Size requirement: Readable and visible

5.2.6 Mexico

Once Mexico approval is granted for FRGEN21 the following certification number (number to be added when certificate is obtained), has to be labelled on the product on the product.

IFETEL: XXXXXXXXXXXXXXX

Size requirement: Readable and visible

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5.2.7 United Kingdom

The UK homologation mark will be applied on the sensor. UK homologation mark according to the Radio Equipment Regulations 2017.



Size requirement: 5 mm

6 User manual phrases

The phrases have to be included in a conspicuous location in the vehicle user manual and accurately reprinted as indicated in the following sub-chapters.

6.1 United States

Changes or modifications made to this equipment not expressly approved by ZF Autocruise France S.A.S. may void the FCC authorization to operate this equipment.

6.2 Radiofrequency radiation exposure information

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

6.3 Canada

This device contains license-exempt transmitters/receivers that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(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.*

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6.4 Europe

EC DECLARATION OF CONFORMITY

Hereby, ZF declares that the radio equipment type FRGEN21 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [link tbd](#)

6.5 Japan

This device is granted pursuant to the Japanese Radio Law (電波法) under the grant ID N° 認証番号 (point 7.2.4). This device should not be modified (otherwise the granted designation number will become invalid) 本製品の改造は禁止されています。 (適合証明番号などが無効となります。)

6.6 China

不得擅自更改发射频率、加大发射功率（包括额外加装射频功率放大器），不得擅自外接天线或改用其它发射天线

使用时不得对各种合法的无线电通信业务产生有害干扰；一旦发现有干扰现象时，应立即停止使用，并采取措施消除干扰后方可继续使用

使用微功率无线电设备，必须忍受各种无线电业务的干扰或工业、科学及医疗应用设备的辐射干扰

不得在飞机和机场附近使用。

6.7 Mexico

“La operación de este equipo está sujeta a las siguientes dos condiciones:

- 1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- 2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.”

6.8 UK

UK DECLARATION OF CONFORMITY

Hereby, ZF declares that the radio equipment type FRGEN21 is in compliance with the Radio Equipment Regulations 2017. The full text of the UK Declaration of Conformity is available at the following internet address: [link tbd](#)