CC-DA/ECR	Customer	:	**Bosch (internal)**
	Platform	:	LRR4
	Order Number Order Number Customer	:	0 203 000 xxx add customer number for customer-version
	Offer Drawing	:	0 265 A60 xxx
	System	:	**HDI, ACC base, PCW, EBA, AEB**
	Remarks	:	**Part 5:** **Device marking, labeling and user manual phrases**

WARNING: This printed document is an UNCONTROLLED COPY.
The user must verify that it is the current revision prior to use.

Issue and Author:		**1**
Department:	Date:	Signature:
CC-DA/ECR4	16.12.2013	Frank Ernst
Detailed description of modifications see page 2		

Checked, Reviewed by:		
Department:	Date:	Signature:
CC-DA/ECR1		Hansen
CC-DA/ECR2		Stock
CC-DA/ECR3		Kühnle
CC-dA/ECR4		Gold
CC-DA/PJ-RC		Kühnle
CC-DA/PJ-PAP		Wilhelm

Agreements, Permission by:		
Department:	Date:	Signature:
CC-DA/ECR		Klar
CC-DA/ESR		Lucas
CC-DA/NE		Müller
CC-DA/xyz		Doppelunterschrift bei Kundenprojekten

Modifications

No.	Date/Reviser	Chapter	Description of modification
1	18.12.2013 Ernst	all	Initial version with mandatory test and labels
2	23.01.2014	1/2/4	General update, chapter 5 USA / CAN information split in 2 subchapters
2.1	29.01.2014	All	Corrections based on findings in previous eUU

Table of Contents

1 External Reference Documents

1.1 Regulations and Standards

LRR4 SCU meets the following statutory requirements

Table 1-1

Country	Applicable standard / regulation
USA	47 CFR §15.19 47 CFR §2.925 47 CFR §15.21 47CFR §15.53 47CFR §15.253
Canada	RSS-Gen section 7.1.3 RSS-102 section 2.6 RSS-Gen RSS-210 Annex 13
Europe	EN 301 091 part-1 V1.3.3 EN 301 091 part-2 V1.3.2 EN 301 489 part-1 V1.9.2 EN 301 498 part-3 V1.6.1 EN 62479:2010 EN 60950-1:2006/A11:2009/A1:2010/A12:2011
Japan	ARIB STD-48 V2.1
Australia	Radio-Communications(LIPD) Class License 2000
China	Technical Specification for Micropower radio Equipments

Additionally, the Short-Range Devices regulation for automotive radar in the band 76-77GHz is met in all countries that are listed on the BOSCH focus country list.

2 General points on the type approval of automotive radar sensors

- Granting and defining the requirements for obtaining radio frequency type approvals is a task in the responsibility of a country´s telecommunication authority. Rejections of approvals or country specific restrictions are administrative decisions and cannot be influenced by BOSCH.
- BOSCH cannot control the elements involved in the radio frequency type approval process of a country:
    - Incurring Costs and fees
    - Lead-time for obtaining the type approval
    - Validity of a type approval certificate
    - Content and requirements for obtaining a type approval certificate
- The requirements and procedures for obtaining radio frequency type approval in a country may change. In case of uncertainty reconfirmation of the requirements that apply may be necessary.
- The radio frequency type approval for the sensor will be obtained for 100 countries as listed on the BOSCH focus country list. The BOSCH focus country list is available on request.
- Application for type approval in countries that are not listed on the BOSCH focus country list will be handled on customer request and charged separately. In this case the availability of the 76GHz frequency range for automotive radar, administrative requirements and incurring costs have to be confirmed prior to filing an application.

3 Abbreviations

ARIB	Association of Radio Industries and Businesses
ASIL	Automotive Safety Integrity Level
CEPT	European Conference of Postal and Telecommunications Administrations
ECU	Electronic Control Unit
ETSI	European Telecommunications Standards Institute
FCC	Federal Communications Commission
OET	FCC Office of Engineering and Technology
LRR4	Long Range Radar 4th Generation
SCU	Sensor and Control Unit
RSS	Radio Standards Specification
TCD	Technical Customer Documentation

4 Scope

This document is part of a TCD, valid for LRR4 Radar-Sensors.

The complete TCD consists of 5 Parts:

Part 1: HW functions and function states (operation modes), functional characteristic values

Part 2: Electrical, Mechanical, Climatic and Chemical Characteristics

Part 3: Transport, assembly, start of operation and end of operation, storage, service, maintenance and recycling

Part 4: Testing, test data and test methods

Part 5: Marking and user manual phrases

5 Mandatory Country Specific User Manual Statements and Labels

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

5.1 USA

User manual statement according to §15.19:

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.

User manual statement according to §15.21:

Changes or modifications made to this equipment not expressly approved by Robert BOSCH GmbH may void the FCC authorization to operate this equipment.

User manual statement according to §15.105:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF Exposure Information according 2.1091 / 2.1093 / OET bulletin 65:

Radiofrequency radiation exposure Information:

This equipment complies with FCC 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.

5.2 Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device must not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

5.3 Japan

Japanese Radio Law Compliance. This device is granted pursuant to the Japanese Radio Law(電波法)

This device should not be modified (otherwise the granted designation number will become invalid)

5.4 Korea

Class B Equipment]

B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Translation: This equipment has been approved under EMC Registration as a Class B device (for domestic use) and can be used in both residential and commercial areas.

[RF Warnings]

해당 무선 설비는 운용 중 전파혼신 가능성이 있음

Translation: This radio equipment has potential for interference during operation.

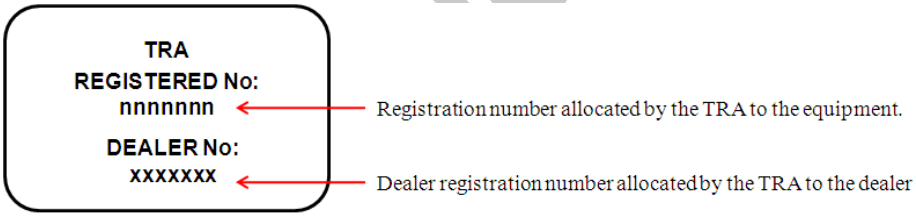
5.5 Indonesia: Certification label

Number to be added when certificate is obtained

5.6 Hong Kong: Certification Label

Number to be added when certificate is obtained

5.7 Abu Dhabi



Certificate number will be added, when certificate is granted

5.8 South Africa

Certificate number will be added, when certificate is granted

5.9 Taiwan

The manual should contain below warning (for RF device) in traditional Chinese

注意!

依據低功率電波輻射性電機管理辦法

第十二條經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

5.10 Brazil

This logo must be reproduced in the operating manual

Certificate number will be added, when certificate is granted

6 Appendix A: Data Categories

The TCD data are subdivided into various categories.

The categories refer to the quality assurance measures taken by Bosch.

Category	Definition
I	Characteristic values for description of interface and application
II	Characteristic values for design verification test conditions
III	Tests which are performed one time in the release validation with at least one C-sample
IV	Test performed at least one time in reliability testing (environmental-endurance test) with a minimum of one C-sample
V	Test performed at least one time in reliability testing (QZ-Test) with a minimum of one D-sample