

Product Label Marking Specification

DHS_AUQ7_NFC

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| | |
|--------------------------|----------------------------------|
| Maturity: | Draft |
| Author(s): | Thierry Guidet (+33-5-6119-5740) |
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| eSign N° | Name: | Dept.: | Phone: |
|------------------------|------------------|---------------|-----------------|
| 1 st Check: | GUIDET, Thierry | <SE> | +33-5-6119-5740 |
| 2 nd Check: | BARDALOU, Cindy | <QE> | +33-5-6223-1509 |
| 3 rd Check: | MOSER, Andreas | <PM TLS> | +33-5-6223-1381 |
| 4 th Check: | VAYSSE, Bertrand | <R&D Manager> | +33-5-6119-7292 |
| 5 th Check: | | | |
| 6 th Check: | | | |
| 7 th Check: | | | |

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History:

| Ver. | Date yyyy-mm-dd | Maturity draft/ reviewed/ released | Author Name/ Department | Description |
|------|--------------------|---|-------------------------------|---|
| AA | 2018-02-13 | Draft | T. Guidet | Document Creation |
| AB | 2018-05-11 | Draft | T. Guidet | Up-date with Q7NFC part history Define Front side marking Define back side marquing |
| AC | 2018-09-12 | Draft | T. Guidet | Up-date marking for sw 0010 indus Gen status = 01K SW Id = S0010 |
| AD | 2018-09-12 | Released | T. Guidet | Up-date marking for sw 0010 indus Gen status = 01S SW Id = 0010 |

Items in Yellow : changes from previous version
 Items in Blue : To be defined or To be Confirmed

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1. General

This is the main document defining the label marking for NFC approval for AUDI Q7 NFC product

| Product name | Variant | Continental Part number | Audi Part number |
|-----------------|---------|-------------------------|------------------|
| DHS Audi Q7 NFC | NFC | A2C 161 197 01 | 4M1.927.753 |

2. Product overview

AUDI Q7 NF is a door handle sensor with NFC feature to detect smartphone and/or smartcard presence in a range of 30 mm from the surface of the door handle.

| Documentation | Continental reference | Remark |
|------------------|---|--------|
| Customer drawing | 4M1_927_753__DRW_TZ__001____DOOR_HANDLE_SENSOR_2017_11_17______.pdf | |

3. Continental End of Line Marking specification

3.1 Marking specification

Marking is defined according to Audi Labelling specification : WSK_013_290_E_DRW_TZ_003_002_TYPENSCHILDENGLISC_20160218_____.jpg

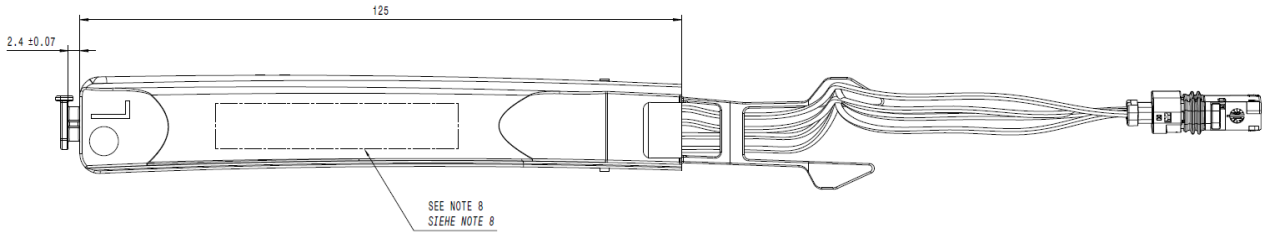
In general text objects and logos (e. g. customer logos) should be readable by human and as appropriate by a camera system. At least customer requirements shall be fulfilled. The required free area for text and logos can be calculated on the basis of following table:

| Description | Lasermarking | Labeling |
|---|--------------|----------|
| Min. text height [mm] | 1.5 | 1.5 |
| Min. logo size [mm] | 2 | 2 |
| Min. distance between characters [mm] | 0.1 | 0.3 |
| Min. distance between logos [mm] | 0.1 | 0.3 |
| Free surrounding area of complete layout [mm] | 1 | 3 |

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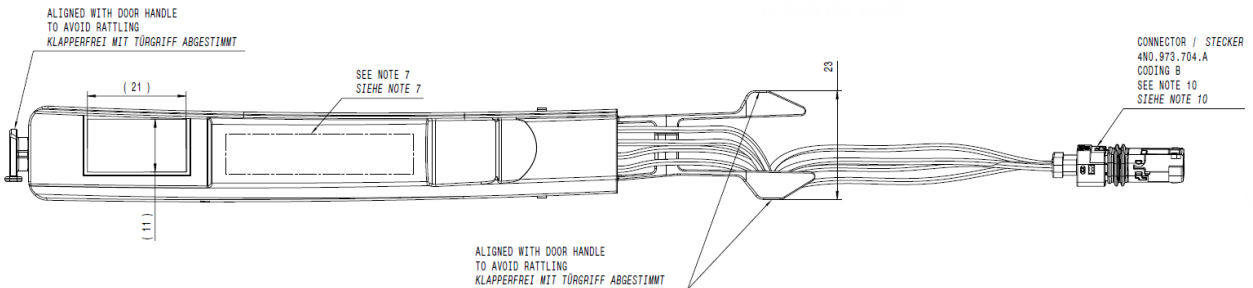
3.2 extract from Housing sensor drawing:

3.3 Extract from customer drawing :



- 8- END OF LINE MARKING / END OF LINE MARKIERUNG:**
 CONTINENTAL SERIAL NUMBER / CONTINENTAL SERIENNUMMER: DATAMATRIX
 AUDI PART NUMBER / AUDI TEILNUMMER
 GENERATION NUMBER / GENERATIONSNUMMER: HX.X SX.XX XXS
 CONTINENTAL PART NUMBER / CONTINENTAL TEILNUMMER
 CONTINENTAL SERIAL NUMBER / CONTINENTAL SERIENNUMMER
 DATE CODE / DATUM: DDYYHHMMSS
 CONTINENTAL
 R&D CENTER ADDRESS / F&E ZENTRUM ADRESSE
 MADE IN FRANCE
 AUDI SERIAL NUMBER / AUDI SERIENNUMMER: DATAMATRIX
 CE LOGO / CE LOGO
 FCC ID / FCC ID
 MODEL NAME / MODELNAME

Notes



- 7- IN MOLD MARKING / WERKZEUGMARKIERUNG :**
 AUDI LOGO / AUDI LOGO
 CONTINENTAL LOGO / CONTINENTAL LOGO
 CONTINENTAL MANUFACTURER CODE / CONTINENTAL HERSTELLER CODE
 DATE CLOCK / DATUMSUHR

4. NFC radio tests homologation

This label applies to AUDI Q7 NFC 13.56MHz

The DHS module shall pass the NFC Radio Tests Homologation for the following countries. This includes an initial Homologation at PV time, and periodic re-Homologation when applicable.

| Country | Applicable norm |
|---|-----------------|
| Austria | CE |
| Belgium | CE |
| Bulgaria | CE |
| Croatia | CE |
| Czech Republic | CE |
| Danmark | CE |
| Estonia | CE |
| Finland | CE |
| France | CE |
| Germany | CE |
| Great Britain / North Ireland | CE |
| Greece | CE |
| Hungary | CE |
| Ireland | CE |
| Italy (San Marino, Vatican) | CE |
| Latvia | CE |
| Lithuania | CE |
| Luxemburg | CE |
| Malta | CE |
| Netherlands | CE |
| Norway | CE |
| Poland | CE |
| Portugal | CE |
| Romania | CE |
| Slovenia | CE |
| Slovak Republic | CE |
| Spain (Andorra, Balearic Islans, Canay Islands) | CE |
| Sweden | CE |
| Switzerland | CE |
| Turkey | CE |
| USA | FCC |

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5. Label definition

5.1 Front side marking

Front side marking contains:

- AUDI part number
- CONTINENTAL inscription
- MADE IN FRANCE inscription
- Manufacturing code
- Audi Logo

| | |
|--|--|
| 4M1.927.753 CONTINENTAL MADE IN FRANCE | SM6  |
|--|--|



example of a Q7NFC global front side sensor

5.2 Back side marking

The back side marking contains:

- NFC homologation marking
- Continental R&D address
- Sensor identification
- Continental Datamatrix
- Audi Datamatrix

5.2.1 NFC homologation marking :

| Country | ID extracted from original homologation file | Font | Zone size (Lxh in mm) |
|---------------|--|---------------|-----------------------|
| Europe |   | Official mark | 6.5 X 4.5 |
| USA | "FCC ID: KR5DHSQ7NFC": USA ID (Homologation) | Arial | 15 x1.6 |
| Product Label | "model name :DHSQ7NFC" | Arial | 7x1.6 |

Those 3 marking shall be present on the sensor.

5.2.2 Continental R&D address :

Continental R&D address shall be written on the sensor :

Continental
1, Av Paul Ourliac
31036 Toulouse

5.2.3 Sensor identification :

| Marking number | Meaning | Comment |
|----------------|---|------------------------------|
| 4M1.927.753 | Audi DHS Q7 NFC reference | VW part number |
| H03 0010 01S | HW ref / sw ref / Generation status ref | |
| A2C16119701 | Continental DHS Q7 NFC reference | Continental part number: A2C |
| Serial number | 14 characters Production serial number as defined in chapter Continental DataMatrix | |
| Day Date : | According to continental production | |

| | | |
|------------------------------|-------------|------------------------|
| For internal use only | | Page 7 of 9 |
| © Continental AG | | |
| Document-no: xxxx | Version: AD | CAP0300053-F48 ver 1.0 |

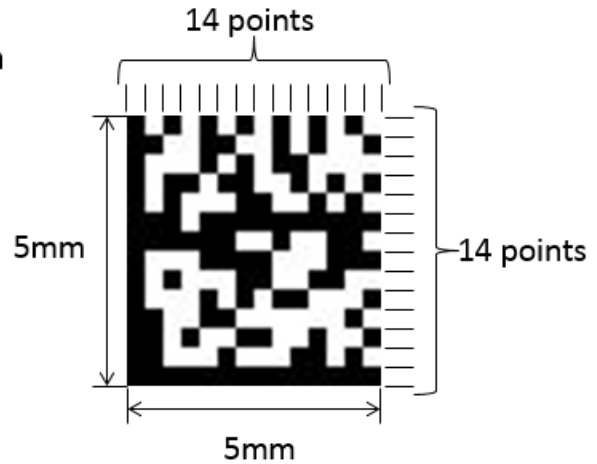
5.2.4 Continental DataMatrix :

Serial number

Creating and marking serial number on panel/pcb on laser marking station

Datamatrix code is marked on panel and pcb
 datamatrix = index code + serial number
 index code = internal product reference = 5 characters
 serial number = unique number = 9 characters

Example : datamatrix = 95010931234567
 95010 = INDEX Code = A2CXXXXX = product reference
 931234567 = serial number
 digit 1 = Production plant = Boussens = 9
 digit 2 = year = 2013 = 3
 digit 3 to 9 = incremental number



5.2.5 Audi DataMatrix :

| ③ Slave control units | | | |
|-----------------------|--------------------|---|---------------------|
| Number of characters | Description | | Example |
| 1 | Z | DMC-Version = '3' | 3 (fixed Value) |
| 1 | # | Separator | # |
| 14 | VVVHUUEEEXFFF | Part number (last 3 characters = FAKOM) | 7P6919603A |
| 1 | # | Separator | # |
| 9 | HVVVSVVVV | HardwareVersionSoftwareVersion | HH04SX013 |
| 1 | # | Separator | # |
| 9 | DDDDDDDD | DUNS-Nummer | ABCDEFGHI |
| 1 | # | Sepaprator | # |
| 6 | TTMMJJ | Date of manufacture | 110609 |
| 1 | * | Sepaprator | * |
| 3 | BGR | Assembly number (as per build status documentation) | XXH (H fixed value) |
| 20 | SSSSSSSSSSSSSSSSSS | VW Slave Serial Number (VW 80125) | 0123456789ABCDEFHIJ |
| 1 | * | Sepaprator | * |
| 1 | = | sign of end | = |
| 69 | | | |

Note: The 69-character requirement is binding; fill out with blanks as necessary.

| conti proposal |
|--|
| 3 |
| # |
| Left (4N1927753)/Right (4N1927754) |
| # |
| H012S0020 |
| # |
| 265916502 |
| # |
| DDMMYY |
| . |
| ??H |
| correspond to datamatrix conti serial number |
| . |
| = |


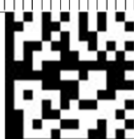
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5.2.6 Global back side labelling view

Global back side labelling contains:

- Back side labelling
- Continental Data matrix
- Audi Data matrix

example of a Q7NFC global back side sensor

| | | | | |
|---|--|---|--|--|
|  | <p>4M1.927.753 H03 S0010 01S A2C16119701 xxxxxxxxxxxxxx Day Date :</p> | <p>Continental 1 Av Paul Ourliac 31036 Toulouse Made in France</p> |  | <p>CE FCC ID: KR5Q7NFC Model Name: Q7NFC</p> |
| Conti Datamatrix | | | Audi Datamatrix | |

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