SLOVENSKI STANDARD
SIST EN IEC 62969-2:2018

01-julij-2018

Polprevodniški elementi - Polprevodniški vmesnik za motorna vozila - 2. del: Metode za vrednotenje učinkovitosti brezžičnega napajanja z uporabo resonance v zaznavalih motornih vozil (IEC 62969-2:2018)

Semiconductor devices - Semiconductor interface for automotive vehicles - Part 2: Efficiency evaluation methods of wireless power transmission using resonance for automotive vehicles sensors (IEC 62969-2:2018)

Ta slovenski standard je istoveten z: **EN IEC 62969-2:2018**

ICS:

31.080.01	Polprevodniški elementi (naprave) na splošno	Semiconductor devices in general
43.040.10	Električna in elektronska oprema	Electrical and electronic equipment

SIST EN IEC 62969-2:2018 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62969-2

April 2018

ICS 31.080.99

English Version

Semiconductor devices - Semiconductor interface for automotive vehicles - Part 2: Efficiency evaluation methods of wireless power transmission using resonance for automotive vehicles sensors (IEC 62969-2:2018)

Dispositifs à semiconducteurs - Interface à semiconducteurs pour les véhicules automobiles - Partie 2: Méthodes d'évaluation du rendement de la transmission d'énergie sans fil par résonance pour les capteurs de véhicules automobiles (IEC 62969-2:2018)

Halbleiterbauelemente - Halbleiterschnittstelle für Automobile - Teil 2: Verfahren zur Effizienz-Bewertung drahtloser Leistungsübertragung mittels Resonanz bei Automobil-Sensoren (IEC 62969-2:2018)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 62969-2:2018 E

European foreword

The text of document 47/2450/FDIS, future edition 1 of IEC 62969-2, prepared by IEC/TC 47 "Semiconductor devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62969-2:2018.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2019-01-12
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2021-04-12

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The text of the International Standard IEC 62969-2:2018 was approved by CENELEC as a European Standard without any modification.

IEC 62969-2

Edition 1.0 2018-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Semiconductor devices – Semiconductor interface for automotive vehicles – Part 2: Efficiency evaluation methods of wireless power transmission using resonance for automotive vehicles sensors

Dispositifs à semiconducteurs – Interface à semiconducteurs pour les véhicules automobiles – Partie 2: Méthodes d'évaluation du rendement de la transmission d'énergie sans fil par résonance pour les capteurs de véhicules automobiles

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FOREWORD

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International Standard IEC 62969-2 has been prepared by IEC technical committee 47: Semiconductor devices.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
47/2450/FDIS	47/2460/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 62969 series, published under the general title *Semiconductor devices – Semiconductor interface for automotive vehicles*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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SEMICONDUCTOR DEVICES – SEMICONDUCTOR INTERFACE FOR AUTOMOTIVE VEHICLES –

Part 2: Efficiency evaluation methods of wireless power transmission using resonance for automotive vehicles sensors

1 Scope

This part of IEC 62969 specifies procedures and definitions for measuring the efficiency of the wireless power transmission system for the automotive vehicles sensors. This document deals with the power range below 500 mW.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1
wireless power transfer
technology of power transmission/receiving without power line

3.2
resonance frequency
f
special frequency which is determined by inductance and capacitance of the coil

3.3
resonant wireless power transfer
energy transfer maximizing method using the concord of resonance frequency between the two coils which make magnetic inductive coupling

3.4
power driving coil
coil which receives RF power directly

Note 1 to entry: The power driving coil is part of the basic elements of the resonant wireless power transmission system.

3.5
transmitting resonator coil
coil which transfers power using magnetic resonance

Note 1 to entry: The transmitting resonator coil is part of the basic elements of the resonant wireless power transmission system.