BS ISO 11067:2015



BSI Standards Publication

Intelligent transport systems — Curve speed warning systems (CSWS) — Performance requirements and test procedures



...making excellence a habit."

National foreword

This British Standard is the UK implementation of ISO 11067:2015.

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A list of organizations represented on this committee can be obtained on request to its secretary.

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Systèmes intelligents de transport — Systèmes d'alerte de vitesse excessive en approche de virage (CSWS) — Exigences de performance et modes opératoires d'essai



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 204, Intelligent transport systems.

Introduction

The main function of Curve Speed Warning Systems (CSWS) is to warn the driver against the danger caused by maintaining excessive speed to negotiate an upcoming curved road. The system computes the current location of the vehicle with respect to the upcoming curved road of interest and determines a warning threshold speed, below which the vehicle can safely negotiate the upcoming curves. If the vehicle speed exceeds the warning threshold speed, the system provides a warning to the driver, prompting the driver to react and lower the subject vehicle speed to a level suitable for negotiating the curved road ahead. The CSWS scope does not include automated intervention features or means for controlling the vehicle to match a desired speed.

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1 Scope

This International Standard contains the basic warning strategy, minimum functionality requirements, basic driver interface elements, minimum requirements for diagnostics and reaction to failure, and performance test procedures for Curve Speed Warning Systems (CSWS). CSWS warns the driver against the danger caused by maintaining excessive speed to negotiate the upcoming curved roads, so that the driver may reduce the speed. The system does not include the means to control the vehicle to meet the desired speed. The responsibility for safe operation of the vehicle always remains with the driver.

This International Standard applies to vehicles with four or more wheels.

2 Terms and definitions

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

2.1

subject vehicle

vehicle equipped with the CSWS and related to the topic of discussion

2.2

subject vehicle speed

longitudinal component of the subject vehicle velocity

2.3

system states

one of several stages or phases of system operation

Note 1 to entry: See Figure 1.

2.3.1 CSWS off state state in which CSWS is off

Note 1 to entry: This state has one of the following three causes: the driver has selected the off condition, the ignition is off, or the CSWS is in failure.

2.3.2 CSWS on state state in which CSWS is on

Note 1 to entry: This state is either in unavailable state or in available state.

2.3.3 CSWS unavailable state

system is in on state and the system has inadequate information

Note 1 to entry: The system cannot make a decision whether the warning criteria are met or not because of fault in GNSS device, lack of map data, or other reasons.