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## **Intelligent transport systems — Lane change decision aid systems (LCDAS) — Performance requirements and test procedures**

*Systèmes intelligents de transport — Systèmes d'aide à la décision de changement de voie — Exigences de performances et méthodes d'essai*



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Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
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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.

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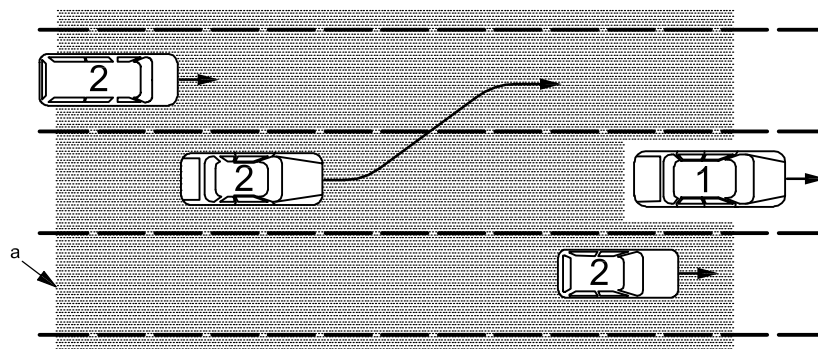
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## Introduction

Lane Change Decision Aid Systems (LCDAS) warn the driver against collisions that may occur due to a lane change manoeuvre. LCDAS are intended to supplement the vehicle's interior and exterior rear-view mirrors, not eliminate the need for such mirrors. LCDAS are intended to detect vehicles to the rear and sides of the subject vehicle (see Figure 1). When the subject vehicle driver indicates the desire to make a lane change, the system evaluates the situation and warns the driver if a lane change is not recommended. LCDAS are not meant to encourage aggressive driving. The absence of a warning will not guarantee that the driver can safely make a lane change manoeuvre. The system will not take any automatic action to prevent possible collisions. Responsibility for the safe operation of the vehicle remains with the driver.

**NOTE** Many figures in this document show vehicles on roadways with lane markings. This is not meant to imply that lane marking recognition or lane detection is required for an LCDAS. The lane markings are drawn for reference only.



### Key

- 1 subject vehicle
- 2 target vehicles

<sup>a</sup> The shaded area illustrates the concept of one possible system. The actual requirements are given in Clause 4.

**Figure 1 — LCDAS concept**