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

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

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This document was prepared by Technical CommitteeISO/TC 204, *Intelligent transport systems*.

This second edition cancels and replaces the first edition (ISO 17387:2008), which has been technically revised.

The main changes are as follows:

— the target vehicle closing speed classification and target vehicle closing speed classification for road curvature have been modified;

— the test procedure for closing vehicle warning function has been modified;

— the blind spot warning test for target vehicle moving laterally has been modified;

— the definition of the reference point for driver’s eye position has been simplified.

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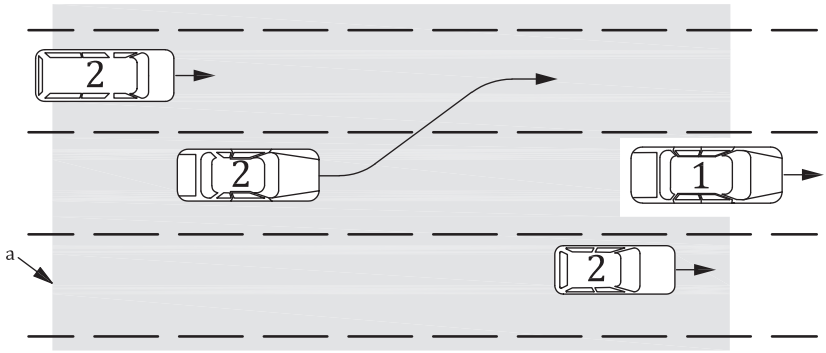
Lane change decision aid systems (LCDAS) warn the driver against collisions that can occur due to a lane change manoeuvre. LCDAS are intended to supplement the vehicle's interior and exterior rear-view mirrors; they are not intended to eliminate the need for such mirrors. LCDAS are intended to detect vehicles in the adjacent lanes 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. The absence of a warning does 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 intended 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

[a] The shaded area illustrates the concept of one possible system. The actual requirements are given in Clause 5.

**Figure 1 — LCDAS concept**