



SURFACE VEHICLE INFORMATION REPORT

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Lane Departure Warning Systems: Information for the Human Interface

RATIONALE

This SAE Information Report has been revised to clarify sections and update references to include new research on this topic.

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1. SCOPE

The lane departure warning (LDW) system is a warning system that alerts drivers if they are drifting (or have drifted) out of their lane or from the roadway. This warning system is designed to reduce the likelihood of crashes resulting from unintentional lane departures (e.g., run-off-road, side collisions, etc.). This system will not take control of the vehicle; it will only let the driver know that he/she needs to steer back into the lane. An LDW is not a lane-change monitor, which addresses intentional lane changes, or a blind spot monitoring system, which warns of other vehicles in adjacent lanes.

This informational report applies to original equipment manufacturer and aftermarket LDW systems for light-duty vehicles (gross vehicle weight rating of no more than 8500 pounds) on relatively straight roads with a radius of curvature of 500 m or more and under good weather conditions.

1.1 Purpose

SAE J2808 was created as a companion to ISO 17361 for the purpose of providing more detailed driver vehicle interface guidance for these systems.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J2944 Operational Definitions of Driving Performance Measures and Statistics

SAE J3063 Active Safety Systems Terms and Definitions

SAE J3280 Guidelines for Haptic Interaction in a Driver Vehicle Interface

2.1.2 ISO Publications

Copies of these documents are available online at <https://webstore.ansi.org/>.

ISO 7000:2019 Graphical Symbols for Use on Equipment - Registered Symbols

ISO 17361:2017 Intelligent Transport Systems - Lane Departure Warning Systems - Performance Requirements and Test Procedures

2.1.3 Other Publications

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