First edition
2015-05-01

Intelligent transport systems (ITS) — Cooperative intersection signal information and violation warning systems (CIWS) — Performance requirements and test procedures

Systèmes intelligents de transport (ITS) — Systèmes d'avertissement d'information et de violation du signal d'intersection coopérative (CIWS) — Exigences de performance et modes opératoires d'essai

Reference number
ISO 26684:2015(E)

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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Foreword

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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 system function of cooperative intersection signal information and violation warning systems (CIWS) is to warn drivers who are about to violate an intersection's traffic signal to stop at the prescribed location. The CIWS is intended to provide a cooperative vehicle and infrastructure system that reduces the likelihood and severity of crashes at signalized intersections by providing the signal phase information and/or by warning the driver that an intersection signal violation is about to occur. The system uses information communicated from the roadside infrastructure to determine if a warning should be given to a driver.

The purpose of implementing CIWS is to reduce violations of traffic signals at signalized intersections to: (a) reduce fatalities, (b) reduce the number and/or severity of injuries, and (c) reduce property damage associated with collisions.

This International Standard addresses CIWS for use in road vehicles approaching signalized intersections.

This International Standard may be used as a system level standard by other standards, which extend the CIWS to a more detailed standard utilizing wireless communication technologies. Issues such as the specific requirements for the function and performance of communication technology or traffic control facilities (including traffic signal controllers) will not be considered in this International Standard.