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Road vehicles — Controller area network (CAN) —

Part 3: Low-speed, fault-tolerant, medium-dependent interface

Véhicules routiers — Gestionnaire de réseau de communication (CAN) —

Partie 3: Interface à basse vitesse, tolérant les pannes, dépendante du support



Reference number
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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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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11898-3 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This first edition of ISO 11898-3 cancels and replaces ISO 11519-2:1994, which has been technically revised.

ISO 11898 consists of the following parts, under the general title *Road vehicles — Controller area network (CAN)*:

- *Part 1: Data link layer and physical signalling*
- *Part 2: High-speed medium access unit*
- *Part 3: Low-speed, fault-tolerant, medium-dependent interface*
- *Part 4: Time triggered communication*
- *Part 5: High-speed medium access unit with low-power mode*

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Introduction

ISO 11898, first published in November 1993, covered the controller area network (CAN) data link layer as well as the high-speed physical layer.

In the reviewed and restructured ISO 11898:

- ISO 11898-1 describes the data link layer protocol as well as the medium access control;
- ISO 11898-2 specifies the high-speed medium access unit (MAU) as well as the medium dependent interface (MDI).

ISO 11898-1:2003 and ISO 11898-2:2003 cancel and replace ISO 11898:1993.

In addition to the high-speed CAN, the development of the low-speed CAN, which was originally covered by ISO 11519-2, gained new means such as fault tolerant behaviour. The subject of this part of ISO 11898 is the definition and description of requirements necessary to obtain a fault tolerant behaviour as well as the specification of fault tolerance itself. In particular, it describes the medium dependent interface and parts of the medium access control.