Australian/New Zealand Standard™

Intruder alarm systems—Road vehicles

Part 1: Performance requirements

Standards Australia

STANDARDS NEW ZEALAND Paerewa Aotearoa

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-031, Intruder Alarm Equipment and Installations. It was approved on behalf of the Council of Standards Australia on 10 January 2003 and on behalf of the Council of Standards New Zealand on 20 February 2003. It was published on 18 March 2003.

The following are represented on Committee EL-031:

Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Australian Security Industry Association
Australian Security Intelligence Organization
Department of Defence
Institution of Engineers Australia
Insurance Council of Australia
New South Wales Police Service
New Zealand Security Association
Security Agents Institute of WA
Tasmanian Police
Victoria Police
Victorian Security Institute

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 00276.

Australian/New Zealand Standard™

Intruder alarm systems—Road vehicles

Part 1: Performance requirements

Originated as AS 3749.1—1990.
Previous edition AS/NZS 3749.1:1997.
Third edition 2003.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 5026 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-031, Intruder Alarm Equipment and Installation, to supersede AS 3749.1—1990, *Intruder alarm systems—Road vehicles*, Part 1: *Performance requirements*.

The objective of this Standard is to provide requirements for a high standard of safety, performance and reliability of vehicle security alarm systems (VSAS) for reference by manufacturers, installers and users.

During the development of the previous edition of this Standard the Federal Chamber of Automotive Industries (FCAI), representing the manufacturers of motor vehicles, did not support the publication of the Standard in its final form and sought to have reference to original equipment systems removed from its Scope.

The FCAI has expressed some concern that the minimum system requirements of this Standard may provide a higher level of security than is necessary for all types of road vehicles and may be too restrictive as to the choice of options available as a basis for setting the minimum system requirements. Also, FCAI has pointed out that interior movement sensors may be difficult to install and adjust in an original equipment fitment environment.

These concerns were duly noted. However, the Committee position has not changed and they believe that the minimum system requirements specified are necessary to achieve the purposes of this Standard.

In developing the Standard, cognizance has been made of the New South Wales Noise Control (Motor Vehicles and Motor Vehicles Accessories) Act 1995 and requirements stated herein have taken due regard of that regulation.

This Standard is based on the International Standard for passenger car alarm systems produced jointly by ISO and IEC as ISO 839-10-1:1995, *Alarm systems*: Part 10: *Alarm systems for road vehicles—Section 1: Passenger cars*.

This Standard is Part 1 of a series of Standards for road vehicle alarm systems, as follows:

Part 1: Performance requirements (this Standard)

Part 2: Installation and maintenance.

This Standard details the minimum performance requirements and associated test methods for a variety of vehicle alarm systems and will be a guide for consumers in their selection of equipment, which can be considered of high quality if complying with these requirements. This Standard, together with Part 2, will also assist in the reduction of the number of false alarms, noise pollution and improvement in installation practices.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

CONTENTS

Page

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
Intruder alarm systems—Road vehicles

Part 1: Performance requirements

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements and test methods for vehicle security alarm systems (VSAS) intended as original equipment and for post-delivery installation within vehicles.

The Standard covers VSAS designed to detect and locally annunciate the unauthorized opening of a vehicle in addition to the automatic immobilization of the vehicle by either the vehicle's original equipment immobilizer or the VSAS.

NOTE: The correct installation of a VSAS is essential to it functioning as designed. Guidance on the installation and maintenance of a VSAS is given in AS/NZS 3749.2.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
1217 Acoustics—Determination of sound power levels of noise sources
1217.5 Part 5: Engineering methods for free-field conditions over a reflecting plane
1259 Acoustics—Sound level meters
1259.1 Part 1: Non-integrating
1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)
3350 Safety of household and similar electrical appliances
3350.1 Part 1: General requirements (IEC 60335-1:1991 MOD)
4268 Radio equipment and systems—Short range devices
4268.1 Part 1: Technical characteristics and test methods for radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
4268.2 Part 2: Technical characteristics and test methods for radio equipment to be used in the 25 MHz to 25 GHz frequency range with power levels ranging up to 1 W

AS/NZS
3749 Intruder alarm systems—Road vehicles
3749.2 Part 2: Installation and maintenance
61000 Electromagnetic compatibility (EMC)
61000.4 Part 4: Testing and measurement techniques
61000.4.3 Part 4.3: Radiated radio-frequency electromagnetic field immunity test
61000.4.6 Part 4.6: Immunity to conducted disturbances induced by radio-frequency fields
CISPR 22 Information technology equipment—Radio disturbance characteristics—Limits and methods of measurement

ASTM
B117 Standard practice for operating salt spray (fog) apparatus