

Australian/New Zealand Standard™

Intruder alarm systems—Road vehicles

Part 1: Performance requirements

AS/NZS 3749.1:2003

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
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Part 1: Performance requirements

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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 IEC 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.

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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