

AS 4192:2022



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Illuminated flashing arrow signs

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AS 4192:2022

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Main Roads Western Australia
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Preface

This Standard was prepared by Standards Australia Committee LG-006, Road Traffic Signals, to supersede AS 4192—2006.

The objective of this document is to specify requirements for the design, construction and performance of signs intended to display specific patterns of flashing yellow, circular lit elements, including arrows, typically used for the temporary diversion of vehicular traffic on roads. It specifies three sizes of signs, which are typically mounted on either a motor vehicle or trailer.

The major changes in this edition are as follows:

- (a) To allow for the use of other technologies as well as 5 mm LED.
- (b) Revision of detailed requirements for photometric and colourmetric measurements.
- (c) Re-format of document in line with new standard requirements.

The use of illuminated flashing arrow signs is subject to regulation by traffic control authorities. Guidance on their use is provided in AS 1742.3.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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Section 1 Scope and general

1.1 Scope

This document specifies requirements for the design, construction and performance of signs intended to display specific patterns of flashing yellow, circular lit elements, including arrows, typically used for the temporary diversion of vehicular traffic on roads. It specifies three sizes of signs which are typically mounted on either a motor vehicle or trailer.

This document states the intended maximum viewing distance for each type of sign specified. It does not cover the appropriate use of each type of sign.

NOTE 1 Refer to AS 1742.3 and the relevant traffic authority regulation for the appropriate use of each type of sign.

NOTE 2 See [Appendix A](#) for details of the information that should be supplied with an enquiry or order for illuminated flashing arrow signs to this document.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1742.3, *Manual of uniform traffic control devices, Part 3: Traffic control for works on roads*

AS 60529, *Degrees of protection provided by enclosures (IP Code)*

AS/NZS 1170.2, *Structural design actions, Part 2: Wind actions*

AS/NZS 2633, *Guide to the specification of colours*

AS/NZS 4509, *Stand-alone power systems, Part 1: Safety and installation, Part 2: System design*

AS/NZS 5033, *Installation and safety requirements for photovoltaic (PV) arrays*

IEC 60068-2-30, *Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)*

ISO/CIE 19476, *Characterization of the performance of illuminance meters and luminance meters*

CIE 15, *Colorimetry*

CIE 18.2, *Basics of Physical Photometry*

CIE 72, *Measurement of Absolute Luminous Intensity Distributions*

CIE 127, *Measurements of LEDs*

CIE 233, *Calibration, Characterization and Use of Array Spectroradiometers*

1.3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.