INTERNATIONAL STANDARD

ISO 6742-1

Third edition
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Cycles — Lighting and retro-reflective devices —

Part 1: Lighting and light signalling devices

Cycles — Éclairage et dispositifs rétro-réfléchissants —

Partie 1: Équipements de signalisation et d'éclairage

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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.

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 149, *Cycles*, SC 1, *Cycles and major sub-assemblies*.

This third edition cancels and replaces the second edition (ISO 6742-1:1987), which has been technically revised.

ISO 6742 consists of the following parts, under the general title *Cycles — Lighting and retro-reflective devices*:

— *Part 1: Lighting and light signalling devices*

— *Part 2: Retro-reflective devices*

— *Part 3: Installation and use of lighting and retro-reflective devices*

— *Part 4: Lighting systems powered by the cycle's movement*

— *Part 5: Lighting systems not powered by the cycle's movement*

Cycles — Lighting and retro-reflective devices —

Part 1:
Lighting and light signalling devices

1 Scope

This part of the ISO 6742 is applicable to lighting devices used on cycles intended to be used on public roads and, especially, bicycles complying with ISO 4210 and ISO 8098.

This part of ISO 6742 specifies the functions, safety requirements, photometric performance and test methods of lighting and signalling devices that can be used on cycles.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6742-4:2015, *Cycles — Lighting and retro-reflective devices — Part 4: Lighting systems powered by the cycle's movement*

ISO 6742-5:2015, *Cycles — Lighting and retro-reflective devices — Part 5: Lighting systems not powered by the cycle's movement*

CIE 1931, *XYZ colour space of the International Commission on Illumination*

3 Terms and definitions

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

3.1
front position lamp
lamp emitting a white or an amber light to the front of the cycle, so as to indicate its presence on the road

3.2
headlamp
lamp to light the road to the front of the cycle that has either low beam, high beam or both

3.3
rear lamp
lamp emitting a red light to the rear of the cycle and used to indicate its presence on the road

3.4
stop-lamp
lamp used to indicate to other road users that the cycle brakes or significantly decelerates

3.5
low beam
light that illuminates the road in front of the cycle without dazzling other road users from the opposite direction