# INTERNATIONAL STANDARD

ISO 6742-3

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# Cycles — Lighting and retroreflective devices —

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

Cycles — Éclairages et dispositifs rétroréfléchissant —
Partie 3: Installation et usage des éclairages et des dispositifs rétroréfléchissant





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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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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 <a href="www.iso.org/patents">www.iso.org/patents</a>).

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 sub-assemblies.

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

### Introduction

This International Standard has been developed in response to demand throughout the world, and the aim has been to ensure that bicycles manufactured in compliance with it will be as safe as is practically possible. The tests have been designed to ensure the strength and durability of individual parts as well as of the bicycle as a whole, demanding high quality throughout and consideration of safety aspects from the design stage onwards.

d are invite. The test method with PSD (6.1.2.2) reflects today's state of the art and should be preferred to the sine sweep vibration test (6.1,2.3).

Users of the standard are invited to provide their feedback to ISO/TC 149/SC 1.

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## Cycles — Lighting and retro-reflective devices —

### Part 3:

# Installation and use of lighting and retro-reflective devices

#### 1 Scope

This part of ISO 6742 is applicable to lighting and retro-reflective 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 safety requirements and test methods of lighting and retro-reflective devices for fastening devices, control, (guidelines for maintenance), instructions for mounting and use.

#### 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 6742-1:2015, Cycles — Lighting and retro-reflective devices — Part 1: Lighting and light signalling devices

IEC 60068-2-6, Environmental testing — Part 2-6: Tests — Test Fc: Vibration (sinusoidal)

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6742-1 and the following apply.

#### 3.1

#### control

any part of a device directly or indirectly actuated by the cyclist which changes the state or functioning of the lighting devices

#### 4 General

#### 4.1 Tolerances

The tolerances given in Table 1 apply unless others specifications are indicated in the text.

Angles	±0,1 °
Masses	±1 %
Time	- 0 s / +5 s
Temperature	±5 °C

Table 1 — General tolerances

#### 4.2 Conditions

Unless otherwise specified, all tests shall be performed at an ambient temperature of  $(23 \pm 5)$  °C and at a humidity of  $(50 \pm 20)$  %RH.