



# TECHNICAL SPECIFICATION



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## Safety of laser products – Part 19: Moving platform laser products

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## CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references .....	6
3 Terms, definitions, symbols and abbreviated terms.....	6
4 Classification principles .....	8
5 Determination of the accessible emission level and product classification.....	8
5.1 General.....	8
5.2 Evaluation of moving platform laser products .....	8
6 Engineering specifications .....	10
7 Labelling and user information.....	10
Annex A (informative) Flowcharts and examples for the classification of moving platform laser products .....	11
Bibliography.....	15
Figure 1 – Example in side view and top view of a swept volume, filled in blue, where human access can be excluded (VCPHA is represented by dashed red line) for a moving platform laser product moving at velocity $\bar{v}$ .....	9
Figure A.1 – Schematic flow chart of the classification of moving platform laser products.....	11
Figure A.2 – Calculation of the VCPHA for a moving platform laser product according to 5.2 for a specific averaged velocity $\bar{v}$ over the time period $t_{\text{move}}$ .....	12
Figure A.3 – Example of a moving platform laser product emitting in direction of movement with a reference point at the emitting chip or the vertex of the fan angle according to IEC 60825-1:2014, Table 11 and emitting visible or near infrared radiation resulting in a minimum measurement distance of 100 mm according to IEC 60825-1:2014, Table 10.....	13
Figure A.4 – Example of a moving platform laser product emitting perpendicular to the direction of movement with a reference point at the emitting chip or the vertex of the fan angle according to IEC 60825-1:2014, Table 11 and emitting visible or near-infrared radiation resulting in a minimum measurement distance of 100 mm according to IEC 60825-1:2014, Table 10 .....	13
Figure A.5 – Position of the stationary and the moving aperture over time when evaluating neighbouring platforms .....	14
Figure A.6 – Example of a moving platform laser product.....	14
Table 1 – Values for the parameters $t_{\text{move}}$ and $\delta_{\text{max}}$ .....	8

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## SAFETY OF LASER PRODUCTS –

## Part 19: Moving platform laser products

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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Technical Specification is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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## INTRODUCTION

Laser products are sometimes used on moving platforms. Currently the standard IEC 60825-1:2014 considers only a stationary aperture; it does not address the situations where the emitting aperture is mounted on a platform, such as a vehicle, that can be in motion. Failure to consider the effects of the motion of the platform can result in overly restrictive assessment of the hazard.

Although accounting for a platform's movement during the assessment of a laser product's classification can lead to less restrictive measurement conditions, it is important not to overlook that there can be apertures, even on other moving platforms, moving at a relative speed of zero or close to zero with respect to the moving platform laser product being classified.

## **SAFETY OF LASER PRODUCTS –**

### **Part 19: Moving platform laser products**

#### **1 Scope**

This part of IEC 60825 specifies the velocity-dependent closest points of human access (VCPHA) for the classification of moving platform laser products when considering the movement of the platform with respect to a stationary frame of reference. This presupposes that the inherent kinetic hazard of the moving platform creates a zone in which persons would not be reasonably expected to be located. Additionally, it takes neighbouring moving platforms into account by defining stationary and moving apertures.

This document is applicable to all laser products whose laser apertures are on a moving platform.

#### **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. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60825-1:2014, *Safety of laser products – Part 1: Equipment classification and requirements*