

<b>STN</b>	<b>Metóda na stanovenie funkčnosti detektorov Pasívne infračervené detektory na detekciu prítomnosti a pohybu</b>	<b>STN EN IEC 63180</b>  33 4591
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Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/20

Obsahuje: EN IEC 63180:2020, IEC 63180:2020

**131901**

EUROPEAN STANDARD

**EN IEC 63180**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2020

ICS 29.120.40

English Version

Methods of measurement and declaration of the detection range  
of detectors - Passive infrared detectors for major and minor  
motion detection  
(IEC 63180:2020)

Méthodes de mesure et qualification de la plage de  
détection des détecteurs - Détecteurs infrarouges passifs  
pour la détection de mouvements de forte et de faible  
amplitude  
(IEC 63180:2020)

Verfahren für die Bestimmung der Funktionalität von  
Meldern - Passive Infrarotmelder für die Bewegungs- und  
Präsenzmeldung  
(IEC 63180:2020)

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**EN IEC 63180:2020 (E)****European foreword**

The text of document 23B/1319/FDIS, future edition 1 of IEC 63180, prepared by SC 23B "Plugs, socket-outlets and switches" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63180:2020.

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IEC 63180

Edition 1.0 2020-06

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Methods of measurement and declaration of the detection range of detectors –  
Passive infrared detectors for major and minor motion detection**

**Méthodes de mesure et qualification de la plage de détection des détecteurs –  
Détecteurs infrarouges passifs pour la détection de mouvements de forte  
et de faible amplitude**



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Passive infrared detectors for major and minor motion detection**

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Détecteurs infrarouges passifs pour la détection de mouvements de forte  
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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 29.120.40

ISBN 978-2-8322-8525-1

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**METHODS OF MEASUREMENT AND DECLARATION  
OF THE DETECTION RANGE OF DETECTORS –**
**Passive infrared detectors for major and minor motion detection****FOREWORD**

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FDIS	Report on voting
23B/1319/FDIS	23B/1320/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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## INTRODUCTION

Passive infrared detectors are an important element in an energy efficient building. They allow for switching on and off and for controlling loads in order to achieve an optimum degree of comfort and energy efficiency.

The detectors covered in this document are motion detectors using passive infrared (PIR) technology in electronic control devices and appliance switches whether stand-alone (direct control of one or more applications) or as part of home and building electronic systems or building automation control systems (HBES/BACS) or similar. In the case of HBES/BACS, the resulting action depends on the programming of the relevant HBES/BACS.

The purpose of these detectors is to detect the movement of persons.

Detectors linked to a system may also be assigned other tasks: state reporting, power consumption, event reporting, scenarios, etc. These additional functions are not part of this document.

In order to achieve the energy efficiency targets and comfort, the detectors should operate accurately. In addition, the detection area will need to be provided with sufficient accuracy in order to allow integrators to choose the correct detectors for the needed action.

This document provides a methodology and test procedures for a manufacturer to declare and verify the detection performance of these devices with respect to the detection area.

## **METHODS OF MEASUREMENT AND DECLARATION OF THE DETECTION RANGE OF DETECTORS –**

### **Passive infrared detectors for major and minor motion detection**

#### **1 Scope**

This document provides a methodology and test procedures to be able to declare and verify the detection area for motion detectors using passive infrared technology in electronic control devices and appliance switches, whether stand-alone (direct control of one or more applications) or as part of home and building electronic systems or building automation control systems (HBES/BACS) or similar.

It also provides a uniform way to present the test results.

The purpose of these detectors is to detect the major and minor movements of persons.

#### **2 Normative references**

There are no normative references in this document.

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