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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29483-2013

**Electrical safety of machinery -- Application of protective
equipment to detect the presence of persons**

机械电气安全 检测人体存在的保护设备应用

(English Translation)

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3.1 Terms and definitions

3.2 Abbreviations

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is equivalent to using IEC/T S62046.2008 (version 2.0) "Safety of machinery to detect the presence of the human body protective equipment applications." this standard made the following editorial changes.

- a) Remove the foreword to the international specification file retains its introduction;
- b) the original IEC standard name in the "machinery safety" to "mechanical and electrical security";
- c) with Chinese symbols instead of decimal format in English format, decimal symbol, "°";
- d) all of them with pictures made compliance change in accordance with the provisions of the relevant national standards;
- e) the international norms that exist in the file editing error, do fit the changes.

The difference in standards with international standards.

In the "3.1.43 restart interlock" added the term "Note. Due to different national standards in the country, and some use the 'start' term, there the use of "start" term. Since this standard requires references to different national standards, so in this standard, "start" and 'start' meaning the same. " Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB 2900.13-2008 Electrotechnical terminology quality and the credibility of the service [IEC 60050 (191).1990, IDT]

--- GB/T 16855 (all parts), Safety of machinery safety related control system components [ISO 13849 (all parts)]

--- GB/T 16856 (all parts), Safety of machinery - Risk assessment [ISO 14121 (all parts)]

--- GB/T 19876-2005 Safety of machinery and parts of the body close to the speed of the positioning of protective equipment (ISO 13855.

2002, MOD)

The standard proposed by China Machinery Industry Federation.

The standard mechanical and electrical systems by the National Standardization Technical Committee (SAC/TC231) centralized.

This standard was drafted. Shenzhen City, measuring Detection Co., Ltd., the Official Selection of the photoelectric Ji Industry Co., Ltd., Beijing Machine Tool Research Institute, North Beijing KND CNC Technology Co., Ltd., the CAS Shenyang Institute of Computing Technology Co., Ltd., Hangzhou Machine Co., Ltd., Zhejiang Kaida Machine Tool Company Limited.

Introduction

This standard provides information protection device applications. In the absence of mechanical protection facilities, the sensing device to detect the use of entering or Approaching the personnel of the danger zone, in order to reduce or avoid the risk of injury from dangerous parts of machinery and equipment.

The purpose of this standard is to provide for the following aspects of mechanical equipment correct application of protective equipment to help. to study mechanical standards (C class standard) standards writing committees, machinery and equipment designers, manufacturers and maintenance personnel, machinery safety appraisal organizations, field operations and other personnel.

Figure 1 and Figure 2 shows the expected use of the standard general process.

The standard Chapter 1 - Section 5, Chapter 7 and Chapter 8, applies to include all protective devices within this range. Chapter 6 is Application of special protective equipment instructions.

The relationship between standards and other standards in Figure 1 (see also Fig. 2) Electrical safety of machinery Detection of human presence protective equipment applications

1 Scope

This standard specifies that persons present in its detection zone protection device detects the selection, installation, configuring and commissioning.

This standard applies to the following standards include provisions for product application

requirements. GB/T 19436 (all parts) provides a variety of electro-sensitive protection Protective equipment (ESPE), and GB/T 17454.1 specified in the pressure-sensitive mats and pressure sensitive floors. Taking account of the mechanical equipment, protective equipment, and the environment by the interaction among people aged 14 and above characteristics.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 5226.1-2008 Safety of machinery - Electrical machinery and electrical equipment - Part 1. General requirements (IEC 60204-1:2005, IDT) GB/T 15706.1-2007 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology, methodology (ISO 12100-1.

2003, IDT)

GB/T 15706.2-2007 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles (ISO 12100-2.

2003, IDT)

GB/T 17454.1-2008 Part 1 Safety of machinery - Pressure sensitive protective devices. pressure sensitive mats and pressure sensitive floors through design and testing Then (ISO 13856-1:2001, IDT) GB/T 19436.1-2004 electric machinery electrical safety sensitive protective equipment - Part 1. General requirements and tests (IEC 61496-1:1997, IDT) GB/T 19436.2-2004 Safety of machinery - Electrical power sensitive protective equipment - Part 2. using active optoelectronic protective devices (AOP-Ds) Special equipment requirements (IEC 61496-2:1997, IDT) GB 19436.3-2008 Safety of machinery - Electrical power sensitive protective equipment - Part 3. using active optoelectronic protective devices diffuse Particular requirements (AOPDDR) device (IEC 61496-3:2001, IDT) ISO 13849 (all parts), Safety of machinery safety related control system components (Safetyofmachinery-Safety-related partsofcontrolsystems) ISO 13855:2002 Safety of machinery and parts of the body close to the speed of the positioning of protective equipment (Safetyofmachinery-Positioningofprotectiveequipmentwithrespecttotheapproachspeedsofpa rtsofthehumanbody) ISO 14121 (all parts), Safety of machinery - Risk Assessment (Safetyofmachinery-Riskassessment) IEC 60050-191:1990 International Electrotechnical Vocabulary (Electrotechnical Vocabulary) (IEV) Chapter 191. Reliability and quality of service [In-ternationalElectrotechnicalVocabulary (IEV) -Chapter191. Dependabilityandqualityofservice] IEC 62061 Safety of machinery - Functional safety of safety-related electrical, electronic and programmable control system

(Safety of machinery - Functional safety of safety-related electrical,
electronic and programmable electronic control systems)