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

GB/T 14048.19-2013

**Low-voltage switchgear and controlgear -- Part 5-7: Control
circuit devices and switching elements -- Requirements for
proximity devices with analogue output**

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Foreword

GB 14048 "Low-voltage switchgear and control equipment" is currently divided into 21 sections.

--- GB 14048.1 low-voltage switchgear and control equipment Part 1. General;

--- GB 14048.2 low-voltage switchgear and control equipment Part 2. Circuit Breaker;

--- GB 14048.3 low-voltage switchgear and control equipment - Part 3. Switches, disconnectors, switch and fuse combination

Appliances;

--- GB 14048.4 low-voltage switchgear and control equipment - Part 4-1. Contactors and motor starters Electromechanical contactors

And motor starters (including motor protection);

--- GB 14048.5 low-voltage switchgear and control equipment Part 5-1. Control circuit devices and switching elements - Electromechanical control

Electrical circuit;

--- GB 14048.6 low-voltage switchgear and control equipment Part 4-2. Contactors and motor starters - AC semiconductor

Motor controllers and starters (including soft starter);

--- GB/T 14048.7 low-voltage switchgear and control equipment Part 7-1. Ancillary copper conductor terminal blocks;

--- GB/T 14048.8 low-voltage switchgear and control equipment Part 7-2. Protection of the

auxiliary conductor wiring copper conductors

Terminal block;

--- GB 14048.9 low-voltage switchgear and control equipment Part 6-2. Multiple function equipment (equipment) control and protection switch

Electric (equipment) (CPS);

--- GB/T 14048.10 voltage switchgear and control equipment Part 5-2. Control circuit devices and switching elements proximity

switch;

--- GB/T 14048.11 voltage switchgear and control equipment Part 6-1. Multiple function equipment - Transfer switching equipment;

--- GB/T 14048.12 voltage switchgear and control equipment Part 4-3. Contactors and motor starters - Non-Motor

Load AC semiconductor controllers and contactors;

--- GB/T 14048.13 voltage switchgear and control equipment Part 5-3. Control circuit devices and switching elements - Fault

Proximity Switch (PDF) to determine the conditions required to have the function;

--- GB/T 14048.14 voltage switchgear and control equipment Part 5-5. Control circuit devices and switching elements - with a machine

Mechanical latching function electrical emergency braking device;

--- GB/T 14048.15 voltage switchgear and control equipment Part 5-6. Control circuit devices and switching elements - proximity Biography

Sensors and switching amplifiers DC Interface (NAMUR);

--- GB/T 14048.16 voltage switchgear and control equipment - Part 8. rotary motor control with built - in thermal protection (PTC)

Unit;

--- GB/T 14048.17 voltage switchgear and control equipment Part 5-4. Control circuit devices and switching elements of small capacity

The method of evaluating the performance of special test contacts;

--- GB/T 14048.18 voltage switchgear and control equipment Part 7-3. Ancillary safety fuse terminal blocks

Wide requirements;

--- GB/T 14048.19 voltage switchgear and control equipment Part 5-7. Control circuit

devices and switching elements for band

Analog output proximity equipment requirements;

--- GB/T 14048.20 voltage switchgear and control equipment Part 5-8. Control circuit devices and switching elements make three

You can switch;

--- GB/T 14048.21 voltage switchgear and control equipment Part 5-9. Control circuit devices and switching elements flow

switch.

This section GB 14048 "Low-voltage switchgear and control equipment" in Section 19.

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

This section uses the translation method identical with IEC 60947-5-7:2003 "low-voltage switchgear and control equipment Part 5-7. control circuit

Road devices and switching elements for proximity devices requirements "with analog outputs.

This part is proposed by the China Electrical Equipment Industrial Association.

The low-voltage electrical part by the National Standardization Technical Committee (SAC/TC189) centralized.

This section is responsible for drafting unit. Shanghai Electric Apparatus Research Institute, Shanghai Electric Technology Co., Ltd. Electric Division.

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The measured.

Introduction

This section modifies the GB/T 14048.10-2008 the requirements for proximity switches with semiconductor switching element to apply to DYMO

It intends to export close to equipment.

Low-voltage switchgear and control equipment

Part 5-7. Control circuit devices and switching elements

Requirements for proximity devices with analogue output of

1.1 Scope and purpose

This section specifies the requirements for access to the equipment with analog outputs. The device may be one or multiple sections.

This section applies to access to the equipment with analog outputs. GB/T 14048.10 (proximity switch) is carried out according to the requirements of the provisions of this section

After the additions or modifications to it. Terms of this part number according to GB/T 14048.10 in terms of number of sequence numbers needed to make appropriate changes.

1.2 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/T 14048.10-2008 voltage switchgear and control equipment Part 5-2. Control circuit devices and switching elements proximity

Switches (IEC 60947-5-2:2004, IDT)

2 Terms and definitions

Terms and Definitions The following terms and definitions GB/T 14048.10-2008 defined apply to this document.

2.1 Basic Definitions

2.1.2

Proximity devices with analog outputs proximitydevicewithanalogueoutput

According to the output signal from the sensing surface close to the device to its target object is continuously changed between the devices.

2.1.3

The lower limit distance lowerdistance

Predetermined minimum distance is greater than the value of the output signal changes continuously.

2.1.4

Ceiling distance upperdistance

Predetermined maximum distance, less than this value, the output signal changes continuously.