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

GB/T 18858.2-2012

Replacing GB/T 18858.2-2002

**Low-voltage switchgear and controlgear -- Controller-device
interfaces (CDIs) -- Part 2: Actuator sensor interface (AS-i)**

低压开关设备和控制设备 控制器 设备接口(CDI) 第2部分:执行器传感器接口(AS-i)
(English Translation)

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Foreword

GB/T 18858 "Low-voltage switchgear and control equipment Controller - Device Interface (CDI)" is divided into three parts.

--- Part 1. General;

--- Part 2. Actuator Sensor Interface (AS-i);

Part --- Section 3. DeviceNet.

This section GB/T 18858 Part 2.

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

This section identical with IEC 62026-2:2008 "low-voltage switchgear and control - Controller - device interfaces - Part 2. Executive Actuator sensor interface (AS-i) "(in English).

This Part replaces GB/T 18858.2-2002 "Low-voltage switchgear and control equipment controller - device interfaces - Part 2. Executive Actuator sensor interface (AS-i) ".

This section compared with the GB/T 18858.2-2002, following major technical differences.

--- Introduction of secondary addresses, the number increased from the station from 31-62;

--- Introduction of AS-i safety system.

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB 14048.1 low-voltage switchgear and control equipment Part 1. General (IEC 60947-1:2011, MOD)

--- GB 14048.4-2010 Low-voltage switchgear and control equipment - Part 4-1. Contactors and motor starters electromechanical Contactors and motor starters (including motor protection) (IEC 60947-4-1:2009, MOD) 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.

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Introduction

Described in this section of the input and output relative to the master station concerned, if the user, and vice versa.

Part 1 to 8 for the general requirements of Chapter 9 test. Specifically asked to describe the various actuators, sensors, and so on in the relevant master Stated in the Appendix.

Low-voltage switchgear and control equipment Controller - Device Interface (CDI) Part 2. Actuator Sensor Interface (AS-i)

1 Scope

GB/T 18858 provisions of this section, a single communication method control device and switching between the elements, and having a predetermined pass Member communications interface to establish interoperability systems. Complete system called "Actuator Sensor Interface (AS-i)".

This section describes the connection switching element, such as GB 14048 within the range of low-voltage switchgear and control equipment, control equipment and party law. This method can also be used to connect electrical and other components.

Within the scope of this standard to describe the input and output I/O, its meaning is in

terms of the main station for the application of the meaning is the opposite.

The purpose of this section is to control provisions between the circuit devices and switching elements of the following requirements.

--- Transmission system requirements, interface requirements and the station master and electromechanical devices from;

--- Within the scope of this section, any network in different appliances complete interoperability requirements;

--- Comply within the network described in this section device interchangeability requirements;

--- Slaves, normal operating conditions and electrical equipment and master;

--- Structural and performance requirements;

--- Consistency verification.

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 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (IEC 60068-2-6:1995, IDT) GB/T 2423.5-1995 Environmental testing for electric and electronic products Part 2. Test methods Test Ea and guidance. Shock (Idt IEC 60068-2-27. 1987) GB/T 3956-2008 conductor cable (IEC 60228:2004, IDT) GB 5226.1-2008 Safety of machinery - Electrical machinery and electrical equipment - Part 1. General requirements (IEC 60204-1:2005, IDT) GB 14048.6-2008 Low-voltage switchgear Part 4-2. Contactors and motor starters - AC semiconductor motor control System and starters (including soft starters) (IEC 60947-4-2:2002, IDT) GB/T 14048.7-2006 Low-voltage switchgear and control equipment - Part 7-1. Ancillary Terminal blocks for copper conductors (IEC 60947-7-1:2002, MOD) GB/T 12668.2-2002 speed electrical power drive systems - Part 2. General requirements for low voltage adjustable frequency ac power drive systems Amount A predetermined set value (IEC 61800-2:1998, IDT) GB/T 14048.10-2008 voltage switchgear and control equipment Part 5-2. Control circuit devices and switching elements connected Near switches (IEC 60947-5-2:2004, IDT) GB/T 17045-2008 General Protection against electric shock devices and equipment (IEC 61140:2001, IDT)