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**Control and communication network CC-Link Safety
Specification -- Part 3: Implementation
(English Translation)**

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Foreword

GB/Z 29496 "Control and Communication Network CC-LinkSafety Specification" is divided into the following three sections.

- Part 1. Overview/Agreement;
- Part 2. Routine;
- Part 3. Achieve.

This section GB/Z 29496 Part 3.

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

This part of the revision adopted the CC-LINK Association standard BAP-C1603-002-C "CC-LinkSafety specification to achieve." this part of the technical content with the original international standards there is no difference, for the convenience of our users, in the text of the layout of the following Adjustment.

--- This part of the revision uses the original English standard Part 2 BAP-C1603-002-C;

--- Rewrite the foreword of this section;

--- According to the reference standard in the article, an increase of Chapter 2 Normative references;

--- Chapter 2 of the original text to achieve the requirements of Chapter 3 of this section, and adjust the subsequent text reg number.

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial Process Measurement and Control Standardization Technical Committee (SAC/TC124) centralized.

This part of the drafting unit. Machinery Industry Instrumentation Comprehensive Technology and Economy Institute, Beijing and Belgium Systems Engineering Co., Ltd., Tsinghua University Dongfeng Design Institute Co., Ltd., Shanghai Automation Instrumentation Co., Ltd., Chongqing Chuan Yi Automation Co., Ltd., CNOOC Research Center, Tianhua Chemical Machinery and Automation Research and Design Institute, China CC-Link user organizations.

1 Scope

This part of GB/Z 29496 describes the safety master and safety slave equipment in order to meet the compatibility and interconnection of CC-LinkSafety Follow the implementation requirements.

This section applies to the field of automation and control.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 19760.2 CC-Link control and communication network specification Part 2. CC-Link implementation GB/T 19760.3 CC-Link control and communication network specification - Part 3 - CC-Link rules 3 to achieve the requirements

3.1 Overview

The items described in the "Requirements" mentioned in this chapter should be implemented in the developed CC-LinkSafety interface.

The CC-LinkSafety protocol uses the same physical and data link layers as the CC-Link protocol. Correspondingly, CC-LinkSafety the interface has the same configuration as the CC-Link interface, and its hardware structure is as shown in the example in Figure 1.

If you can complete the CC-LinkSafety protocol according to the data transmission, the hardware structure of the interface need not be implemented in accordance with Figure 1. another You can also use large scale integrated circuits (LSIs) to develop interfaces.

Figure 1 CC-LinkSafety interface block diagram (example)