JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 9706-3 : 2009

(IEC 61310-3 : 2007)
(JMF)

Safety of machinery—Indication, marking and actuation—Part 3: Requirements for the location and operation of actuators

ICS 13.110

Reference number : JIS B 9706-3 : 2009 (E)

PROTECTED BY COPYRIGHT

8 S

Documents
Document Sharing Hub

Full document details: JIS B 9706-3-2009

Date of Establishment: 2001-09-20

Date of Revision: 2009-04-25

Date of Public Notice in Official Gazette: 2009-04-27

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Industrial Machinery

JIS B 9706-3 : 2009, First English edition published in 2009-11

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2009
All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

TK/AT

Documents
Document Sharing Hub

PROTECTED BY COPYRIGHT

Full document details: JIS B 9706-3-2009

Contents

Page

Introduction 1

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 General requirements 2

5 Actions and effects 4
5.1 Principles 4
5.2 Final effects 4
5.3 Actions 5
5.4 Correlation between actions and final effects 6
5.5 Stopping 7

Annex A (informative) Typical examples of monofunction actuators 8

Bibliography 10

PROTECTED BY COPYRIGHT

Documents
Document Sharing Hub

Full document details: JIS B 9706-3-2009

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Health, Labour and Welfare, and the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Machinery Federation (JMF) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS B 9706-3** : 2001 is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Ministers and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS B 9706 consists of the following three parts under the general title "S*afety of machinery—Indication, marking and actuation*"

Part 1: Requirements for visual, acoustic and tactile signals

Part 2: Requirements for marking

Part 3: Requirements for the location and operation of actuators

PROTECTED BY COPYRIGHT

Documents
Document Sharing Hub

Full document details: JIS B 9706-3-2009

Safety of machinery— Indication, marking and actuation— Part 3: Requirements for the location and operation of actuators

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **IEC 61310-3** published in 2007 without any modifications of the technical contents.

The portions underlined with dots are the matters not given in the corresponding International Standard.

1 Scope

This Standard specifies safety-related requirements for actuators, operated by the hand or by other parts of the human body, at the human-machine interface.

It gives general requirements for

— the standard direction of movement for actuators;

— the arrangement of an actuator in relation to other actuators;

— the correlation between an action and its final effects.

It is based on **JIS C 0447** but is also applicable to non-electrotechnical technologies such as mechanical and fluid-powered systems.

It covers single actuators as well as groups of actuators forming part of an assembly.

This Standard does not specify any requirements for "touch screens" (such information is given in **JIS C 0447**).

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows:

IEC 61310-3 : 2007 *Safety of machinery—Indication, marking and actuation—Part 3: Requirements for the location and operation of actuators* (IDT)

The symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall apply but the revisions (including amendments) made thereafter shall not apply. The normative reference without the indication of the year shall apply only to the most recent edition (including amendments).

AVA Documents
Document Sharing Hub

PROTECTED BY COPYRIGHT

Full document details: JIS B 9706-3-2009