This is a free page sample. Access the full version online.

National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12323:2005

ICS 35.040

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
http://www.nsai.ie

Sales
http://www.standards.ie

AIDC TECHNOLOGIES - SYMBOLOGY

SPECIFICATIONS - CODE 16K

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:

July 7, 2005

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2005

Price Code J

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 12323

May 2005

ICS 35.040

Supersedes EN 12323:1998

English version

AIDC technologies - Symbology specifications - Code 16K

Code à barres - Spécifications des symbologies - Code 16K

AutoID-Technologien - Symbologiespezifikationen - Code 16K

This European Standard was approved by CEN on 21 March 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

© 2005 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 12323:2005: E

This is a free page sample. Access the full version online.

Contents

Page

Foreword **3**

Introduction **4**

1 Scope **5**

2 Normative references **5**

3 Terms and definitions **5**

4 Requirements **6**
4.1 Symbology characteristics 6
4.2 Symbol structure 7
4.3 Character assignments 8
4.3.1 Symbol character encodation 8
4.3.2 Data character encodation 8
4.3.3 Code sets 9
4.3.4 Special characters 11
4.3.5 Start and stop characters 12
4.3.6 Check characters 13
4.3.7 Separator bars 14
4.4 Transmitted data 14
4.5 Dimensions 14
4.6 Reference decode algorithm 14
4.6.1 Introduction 14
4.6.2 Start and stop characters 15
4.6.3 Symbol characters 15
4.6.4 Symbol decode 16
4.6.5 Message decode 16
4.6.6 Additional checks 16
4.7 User-defined application parameters 17
4.7.1 Introduction 17
4.7.2 Symbology and dimensional characteristics 17
4.7.3 Optical specifications 17
4.7.4 Test specifications 17

Annex A (normative) Symbol check characters **19**

Annex B (normative) Special considerations relating to the use of Function Code 1 (FNC1) **21**

Annex C (normative) Using two or more “Code 16K” symbols to distribute longer data messages **22**

Annex D (normative) Transmitted data **25**

Annex E (normative) Symbology identifiers **26**

Annex F (informative) Use of mode, code and shift characters to minimize symbol size **27**

Annex G (informative) Relationship of symbol character value to ASCII Value **28**

Annex H (informative) Guidelines for the use of "Code 16K" **29**

Bibliography **30**

This is a free page sample. Access the full version online.

Foreword

This document (EN 12323:2005) has been prepared by Technical Committee CEN/TC 225 "AIDC Technologies", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

This document supersedes EN 12323:1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

This is a free page sample. Access the full version online.

Introduction

The technology of bar coding is based on the recognition of patterns encoded in bars and spaces of defined dimensions. There are a number of methods of encoding information in bar code form, known as symbologies, and the rules defining the translation of characters into bar and space patterns and other essential features are known as the symbology specifications. "Code 16K" is one such symbology.

Previously, symbology specifications have been developed and published by a number of different private organisations, resulting in certain instances in conflicting requirements for certain symbologies.

Manufacturers of bar code equipment and users of bar code technology require publicly available standard symbology specifications to which they can refer when developing equipment and application standards.

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation