
International Standard



7811/4

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Identification cards — Recording technique —
Part 4: Location of read-only magnetic tracks —
Tracks 1 and 2**

Cartes d'identification — Technique d'enregistrement — Partie 4: Position des pistes magnétiques pour lecture uniquement, pistes 1 et 2

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[ISO 7811-4:1985](https://standards.iteh.ai/catalog/standards/sist/932ba294-0e0d-4ce3-8a64-43fd6fd0f74c/iso-7811-4-1985)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7811/4 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

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The following International Standards cancel and replace ISO 2894 and ISO 3554, of which they constitute a technical revision:

ISO 7811-4:1985

<https://standards.iteh.ai/catalog/standards/sist/932ba294-0e0d-4ce3-8a64-4381661974c5/iso-7811-4-1985>

ISO 7810, ISO 7811/1, ISO 7811/2, ISO 7811/3, ISO 7811/4, ISO 7811/5, ISO 7812, ISO 7813.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Identification cards — Recording technique — Part 4: Location of read-only magnetic tracks — Tracks 1 and 2

0 Introduction

This International Standard is one of a series of standards describing the parameters for identification cards as defined in clause 3 below and the use of such cards for international interchange.

The recording technique and the coded character sets for track 1, intended for alphanumeric data, and for track 2, intended for numeric data, are specified in ISO 7811/2.

1 Scope and field of application

This part of ISO 7811 specifies the location of the tracks for read-only magnetic recordings, tracks 1 and 2, on identification cards intended for automatic data interchange.

2 References

ISO 7810, *Identification cards — Physical characteristics.*

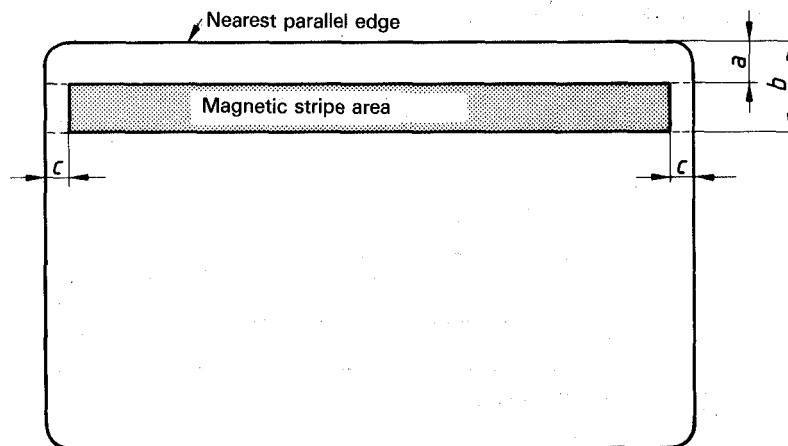
ISO 7811/2, *Identification cards — Recording technique — Part 2: Magnetic stripe.*

3 Definition

For the purpose of this part of ISO 7811, the definition of "identification card" given in ISO 7810 applies.

4 Location of magnetic material

The magnetic material shall be located in the area shown in figure 1.



Dimension	mm	in
a	5,54 max.	0.218 max.
b	11,89 min.	0.468 min.
c	2,92 max.	0.115 max.

Figure 1 — Location of magnetic stripe area for tracks 1 and 2

5 Location of encoded data tracks

Track 1 of encoded data shall extend between two lines, 5,66 mm (0.223 in) and 8,46 mm (0.333 in) from the nearest parallel edge of the card, but not beyond a line 8,97 mm (0.353 in) from the nearest parallel edge of the card (see figure 2).

Track 2 of encoded data shall extend between two lines, 8,97 mm (0.353 in) and 11,76 mm (0.463 in) from the nearest parallel edge of the card, but not closer than 8,46 mm (0.333 in) to the nearest parallel edge of the card (see figure 2).

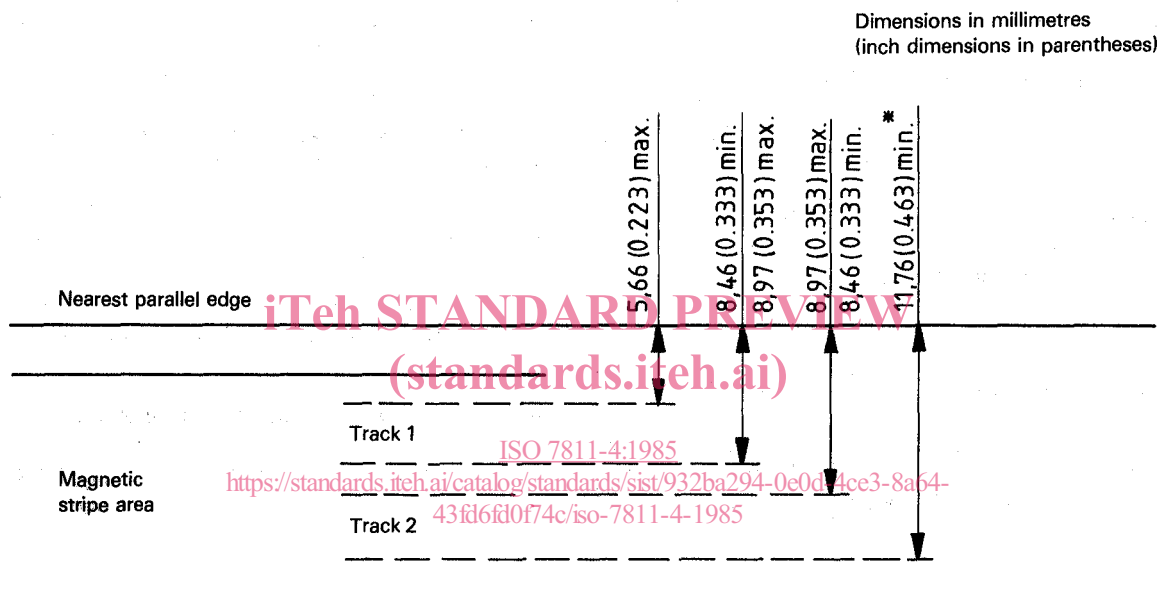
When track 3 specified in ISO 7811/5 is also encoded, the edge of track 2 nearest track 3, including the effects of fringing,

shall not extend beyond 12,27 mm (0.483 in) from the nearest parallel edge of the card.

6 Beginning and end of encoding

The centreline of the first data bit (start sentinel) shall be $7,44 \pm 0,51$ mm (0.293 ± 0.020 in) from the right edge of the card as shown in figure 3.

The centreline of the last data bit recorded shall not extend closer than 6,93 mm (0.273 in) from the left edge of the card as shown in figure 3.



* The condition for maximum extension is given in clause 5.

Figure 2 — Location of tracks 1 and 2

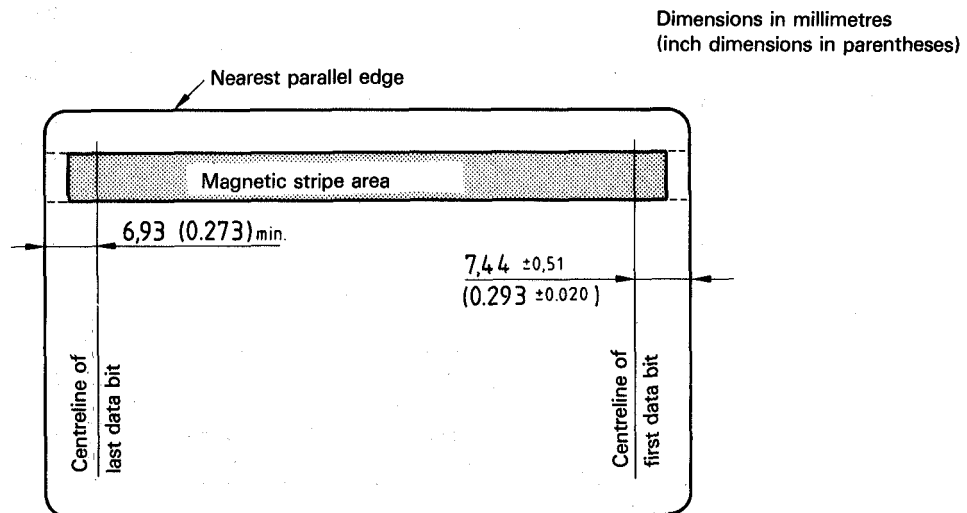


Figure 3 — Limits of encoded data