

## Magnet stripes cards

### Utilization possibilities

The magnet identity card can have multiple forms of utilization such as for example for time recording, access control, bonus/customer cards, event cards or for example eventually as a re-fuelling card. The best known utilization is for use as a method of payment in connection with RFID-Chips such as for example for Bank- or as parking house cards.

Magnetstreifen 300 Oe / 4000 Oe  
auf Ausweis-Rückseite, oben (Standard)

### Function

When writing or encrypting the magnetic particles are freed from their natural chaos and the encrypting sorts them into an appropriate track. The reading device can through this sorting, recognise the appropriate 1 and 0 and compare the recorded data. Track 1 and 2 are set as reading tracks. Track 3 can also be written to in addition. The information as to whether 300 Oe or 4.000 Oe is to be utilized, applies itself according to its utilization. These two measures differentiate between themselves simply in the stability compared with the

### Print/refinement

#### Cards:

The identification card will be designed and produced according to the instructions and technical possibilities. The identification card can be printed both on the front and reverse in one or several colours. Additional safety characteristics such as for example geometrical printing or hologram are also possible. Other options are for example coding, numbering, or even personalization or embossing.

The optimal printing technology will be selected according to the print run and layout/colours, such as for example offset, screen, re-transfer or thermal sublimations/thermal transfer printing.

### Hybrid media (Multiple technologies)

The magnet stripes can easily be utilized in combination with other technologies. It must be noted however that the demands made by the technologies do not overlap on the card in their layout. Supplementary versions can for example be Legic®-, Mifare- or even Hitag 1-Chip.



## Technical information Magnet stripes

Characteristics	Cards
<b>Material</b>	PVC
<b>Colour</b>	□
<b>Connections</b>	laminated
<b>Surface</b>	High gloss/lusterless
<b>Formate</b>	86 x 54 x ca. 0.76 mm Special formats upon enquiry
<b>Frequency</b>	---
<b>Chip type</b>	---
<b>Writing-/reading space</b>	Pull-through or plugging process
<b>Storage medium</b>	Bi-phase-Mark-Code
<b>Storage size</b>	3 Tracks:
<b>Modulation</b>	Track 1: 79 alpha-numerical characters (á 6 bit + 1 bit Parity)
<b>Transfer rate</b>	Track 2: 40 numerical characters (á 4 bit + 1 bit Parity)
<b>Data storage lifetime</b>	Track 3: 107 numerical characters (á 4 bit + 1 bit Parity)
<b>Delete/write cycles</b>	---
<b>Storage functions</b>	---
<b>Access</b>	---
<b>Safety</b>	---
<b>Anti-collision protection</b>	---
<b>Transaction time</b>	Read/write
<b>Temperature area</b>	PIN
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The right to make technical changes is retained