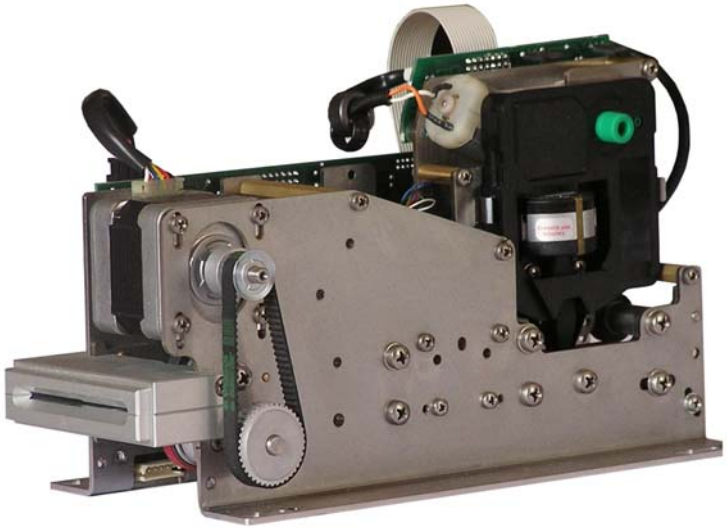
Design and manufacturing of issuing machines and encoders for cards and magnetic tickets

ENC899
Magnetic Reader Encoder with printer



DESCRIPTION

The ENC899 module for magnetic tickets and cards, is part of a family of devices designed for complex applications in which different types of tickets (different support and/or magnetic codes) must be managed simultaneously, with the possibility to have a magnetic and a visual (printing) validation. The ENC899 is a sturdy, simple and compact device that reads/encodes magnetic tickets with thickness ranging from 0.18 mm. to 0.8 mm.

The module can simultaneously read/write up to three ISO standard magnetic tracks at 75 and 210 bpi or two Transac tracks, impact-print a longitudinal line on paper and process I/C cards or contactless cards

The following optional devices are available upon request:

- Single line longitudinal impact printer
- R/W IC card
- R/W contact less card
- Barcode reader
- LCD display interface
- Optocoupled I/O
- Shutter with prehead

MECHANICAL STRUCTURE

The module is compact and equipped with a original belt drive system that handles plastic embossed cards guaranteeing the smooth and regular transport of cards and tickets. The movement is generated by a stepping motor, while the special shape of the transport belt and the pressure of the contrast roller avoid ticket slipping during reading and encoding operations.

TECHNICAL AND MECHANICAL FEATURES OF THE BASE VERSION

Encoding and reading of ISO 2 magnetic tracks at 75 bpi, also in central position up /down
LoCo magnetic encoding
Ticket and card management with variable thickness from 0.18 up to 0.8 mm
Front opening for title insertion
LCD display interface

AVAILABLE OPTIONS FOR BASE VERSION

- Reading and encoding of ISO1 and ISO3 tracks at 210 bpi.
- Reading and encoding of one or two TRANSAC tracks.
- Encoding at high/low coercivity.

- Single longitudinal line impact printer
- Shutter with pre-head
- R/W I/C or contactless cards unit
- Laser reader for barcodes
- RS 232 interface for internal or external contactless card reader.

ELECTRONIC FEATURES OF BASE CPU BOARD

The hole device is controlled by a microprocessor board that host the firmware. The interface with the Host occurs by the means of serial line RS232 with specific protocol for recovery of communication errors.

AVAILABLE OPTIONS FOR BASE CPU BOARD

- RS422/485 interface with address selectable trough jumpers
- I/C Card control interface
- Contactless Card control interface
- Shutter control interface
- LCD display control interface 1x8 up to 2x40 characters.
- I/O optocoupled (3 Input and 3 Output).

OPTIONAL MODULES

- **FED899** feeder for tickets 85.6 mm long
- **FED899/90°** 90° vertical feeder
- **FED899/120** feeder for tickets 120 mm long
- **FED2R_2K6** double roll feeder
- **B/T MODULE** ticket and card parking/swallowing device
- **OBT_MECH** ticket parking and validating unit
- **METRO MODULE** rear exit unit for turnstile applications
- **F_CARD** ticket parking device

TECHNICAL DATA

Dimensions (mm.)	**95 (H) x 230.5 (L) x 104.4 (P) base version 125.3 (H) x 230.5 (L) x 104.4 (P) version with printer**
Power Supply	24 Vcc – 2,5 A max vers. LoCo 3.6 A max vers. HiCo
Operative speed	Up to 600 mm/Sec.
No. printable characters per line	40
Printable area (ticket 54x85.6 mm)	11.5 x 81.6 mm.
Average life magnetic heads	>1.000.000 cycles
Average life printing heads	10.000.000 characters
Average life inked ribbon	1.000.000 characters
Interface	EIA RS232C, RS422/485
Protocol	Asynchronous 19.200 bps 7 bit, even, 1 stop

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