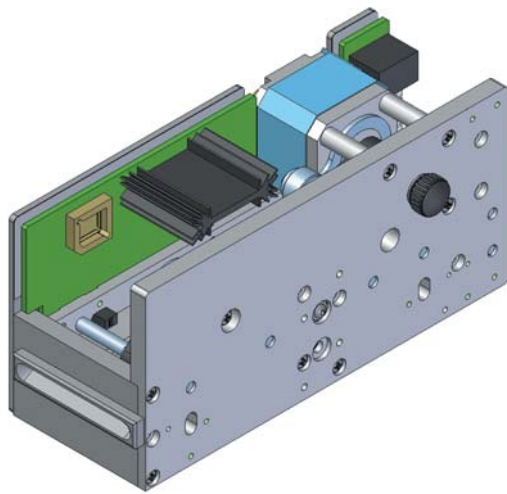




# EL2000 SERIES Reader/encoder module



## MAIN FEATURES

- Simultaneously processing of the magnetic tracks ISO & Central
- Cards management with multiple introduction possibilities
- Embossed cards in conformity with ISO 7811/3 allowed
- Communication by means of RS232/RS485 serial interface
- Special Head stack with floating magnetic heads gimbals
- SMD low consumption electronic circuits
- Two levels head signal amplification
- Single write and verify command
- Automatic retry capability
- Self-diagnostic commands on board
- Optional inlet mouths
- Smart card contactor

## TECHNICAL SPECIFICATIONS

### OVERALL DESCRIPTION

- Outline dimensions:** 90(H) x 192(L) x 72(W) mm
- Weight:** 1,500 gr.
- Electronics:** With microprocessor (Motorola 68HC11K1)
- Card Sensors:** Photosensors
- Track configuration:** ISO 1, ISO 2, ISO 3 & CENTRAL
- Bit density:** 210 or 75 Bpi
- Recording method:** Double density DF (NRZ) ISO 7811
- Transport method:** Stepping motor and belt
- Transport speed:** 500 mm/sec
- Output interface:** RS232/RS485
- Power requirements:** +24V DC +/-10% 1.5A  
+5V DC +/-5% 0.3A

### RELIABILITY

- Transport life:** 2,000,000 cycles
- Heads life:** 2,000,000 cycles
- Error rate:** 1 / 2,000 cycles
- MTBF electronics:** 50,000 hours
- MTBF mechanics:** 2,000,000 insertions

### Optional Configurations

- High coercitivity recording available on all tracks (Up to 4,000 Oe)
- Additional head for handling standard tracks JIS B 9560/9561
- ISO tracks with non standard densities
- ISO tracks in non standard position
- Central track management
- Smart card ISO 7816 contactor
- Extended mouth with ticket capture device
- Extended mouth with controlled inlet shutter

### CARD SPECIFICATION

- Types:** Smooth or embossed (ISO 7811/3)
- Length:** From 85.60 to 120 mm
- Width:** 53.98 mm
- Thickness:** From 0.15 to 0.80 mm
- Coercitivity:** Up to 4,000 Oe

### ENVIRONMENTAL

- Operating temperature:** From 0 to +50°C
- Storage temperature:** From -20 to +60°C
- Relative humidity:** From 20 to 80% (no condensation)