Inline Quality Assurance

rinas

ISS-LIGHT

Production Supervision

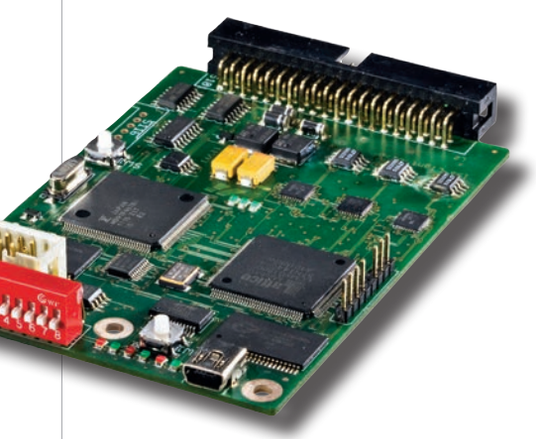
of encoding quality at full fabrication speed

OEM
QUALITY ASSURANCE
PRODUCTION
DESKTOP
ACCESSORIES

RINAS ISS

RINAS ISS-LIGHT – QUALITY ASSURANCE FOR CARD PERSONALIZATION PROCESSES

A highly integrated and intelligent system for the decoding and evaluation of encoded information on magnetic and other data carriers. The ISS-Light enables card verification and analysis of all three magnetic tracks simultaneously at production speeds up to 1.2 m/s, which is equivalent to approx. 15,000 cph - with just one module for all three tracks. Evaluation criteria can be individually defined such that the result is a 100 % check against these requirements. Working in this manner enables the quality of the card's encoding to be adjusted to suit its proposed use.



Unique "Inline Supervision System" for card personalization

The ISS-Light module can be used as a replacement for existing F2F encoding units, and possesses additional functionality for the evaluation of, for example, amplitude and start character positioning - all extracted from the read-head signal information.

Two output signals, data and strobe, enable bit evaluation, whereas an additional identification parameter delivers the good/bad card status with respect to amplitude.

Because card information and the measured values for amplitude can be saved for each card, yet more possibilities are opened up in the supervision of the personalization process – particularly where statistical predictions pertaining to magnetic stripe quality and head wear are extensively used.

The magnetic head signal waveforms are available as an option in a graphical format, which greatly simplifies read-error trouble shooting or for a detailed summary of the encoding quality.

A "teach-in" calibration utility enables the user to compensate for head wear or after head replacement, which has the added positive effect that the effective operational life of the read head is further enhanced.

Magnetic Stripe Encoding

Verified Parameters
- Amplitude (Ua, Umin, Umax)
- Start character
- Start character position (option)

Default Parameters
- Card lengths
- Testing area

Encoding Parameters

Magnetic Stripe
- HICO/LOCO
- 300 Oe to 4,000 Oe
- One module for all three tracks

Standards
- ISO 7811
- JIS
- Visa Mini Card
- AAMVA (US driver's licence)

Encoding
- F2F recording
- 50 BPI to 300 BPI
- Customized

Equipment Parameters

HICO/LOCO Volume
- 1.2 m/s max.
- ca. 15,000 cph

Evaluation Time (after Card Data Read)
- 60 ms

Input
- Head Sig. approx. 20 mV to 100 mV (Us)
- Card under head – TTL

Power
- +5V DC

Output (TTL)
- Data and Strobe
- Test criteria fulfilled yes/no
- Card under head and evaluation complete

Unit Dimensions (mm)
- L/W/H: 108/72/12

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