Keyscan K-SECURE

13.56MHz credential series

dormakaba

Credentials for use with high security K-SMART3 reader series

The Keyscan K-SECURE credential series offers more security. The K-SECURE credential series features proprietary Keyscan 36-bit format to offer unrivalled performance and reliability when used in tandem with Keyscan's K-SMART3, K-SMART3KW; K-SMART3KM series. Together, K-SECURE and K-SMART3 form a high security bond for enhanced reader and credential encryption.
K-SECURE credentials are equipped with anti-counterfeiting, anti-duplication technologies, and a unique AES multi-layer encryption, K-SECURE offers both higher security and return on investment for your Keyscan access control system.

Features and Benefits

- Superior to 125kHz credential technology, which transmits card numbers in an "open" unsecure environment.
- Uses unique and proprietary Keyscan technology
- Completes a 3-pass authentication, encryption / decryption unlock algorithm with K-SMART reader series before data is transmitted
- Functions with K-SMART3, K-SMART3KW; K-SMART3KM series as well as legacy K-SMART and K-SKPR readers
- Available in 1K and 4K models and complies with international interoperability (ISO14443) standards
- Suitable for 3rd party applications (biometrics, logical network access and cashless vending)

High security Keyscan credentials

K-SECURE credential series are available in these formats

ISO printable cards	Fob	RF transmitter
K-SECURE 1K / 4K	**K-SF-1K**	**K-TX2-1K**
available in packs of 10 or 50	available in packs of 50 only	available in packs of 10 only

Why K-SECURE & K-SMART3 offer higher security over 125kHz technology

K-SECURE Security Algorithm

1. Credential enters reader's 'excite' field
2. Credential transmits MAX Secure Code
3. Reader validates MAX Secure Code
4. Reader initiates 3-pass authentication algorithm and sends secure-sector unlock code
5. Credential transmits identification number
6. Reader passes card details using 36-bit Wiegand output to Keyscan access control panel

K-SMART3 Reader series

125kHz card security algorithm

1. Transmit card serial number in an open and unsecure environment
2. Reader passes card details using 36-bit Wiegand output to Keyscan access control panel

36 bit Wiegand output to Keyscan panel

Specifications

Technology	Smartcard
Frequency	13.56 MHz
Formats	Keyscan 36-bit
Material	PVC
Color	Gloss white
Slot Punch	Vertical and horizontal indicators
Marking	Date code and ID
Imaging	ISO graphics quality; supports dye sublimation imaging
Read Range	Up to 2.75 inches (70 mm)
Outputs[1]	CSN and Sector
Warranty	one year
Dimensions	2.1" W × 3.3" H × 0.031" D (54 mm × 85 mm × 0.79 mm)
Operating Temperature	−35° F to 122° F (−37° C to +50° C)
Humidity	0–95% non-condensing
Memory	1K & 4K, suitable for 3rd party applications (biometrics/cashless vending)
ISO Standards Technology	ISO 14443 Size: ISO 7810 (ID-1) (CR-80)
Compatibility	Keyscan K-SMART3; K-SMART3KM; K-SMART3KW; legacy K-SMART and K-SKPR readers

1 CSN = Card Serial Number. Sector = access control data, such as format, facility code, and ID.

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