

Keyscan K-SECURE 1K/4K

13.56MHz credential series



High frequency credentials for use with K-SMART reader series

K-SECURE credential series feature proprietary Keyscan 36-bit format to offer unrivalled performance and reliability when coupled with K-SMART3, K-SMART, and K-SKPR readers for enhanced reader and credential encryption. K-SECURE surpasses 125kHz proximity credential technology, which transmits card numbers in an unsecure "open" environment. Additionally 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.

Key Benefits

- 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-SMART and K-SKPR readers as well as K-SMART3 in an active mobile credential environment
- 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
K-SECURE 1K / 4K
available in packs
of 10 or 50



Fob
K-SF-1K
available in packs
of 50 only



RF transmitter
K-TX2-1K
available in packs
of 10 only



How Keyscan K-SECURE credentials function

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-SMART Reader series

How 125kHz proximity credentials function

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 x 3.3" H x 0.031" D (54 mm x 85 mm x 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-SMART; K-SKPR readers

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

© dormakaba 2019 Information on this sheet is intended for general use only. dormakaba reserves the right to alter designs and specifications without notice or obligation. Printed in Canada.

dormakaba Canada
901 Burns St., E.,
Whitby, Ontario
Canada L1N 0E6

1 888 539 7226

www.keyscan.ca

KKT2040 2019-03