Multi-Technology Readers

Single Reader Solution for Multiple Technologies including ioProx

Features That Make a Difference:

- Reads more than 12 different types of proximity cards and contactless smart cards including ioProx with Kantech XSF format[1]
- Uses encryption and custom keys for secure transmission of card data
- Download new functionality or enhancements for a future-proof solution
- Optional keypad for two-factor verification
- Mount on metal with isolation spacer
- Indoor/outdoor use
- Built-in tamper switch provides secure installation
- Plug-in screw terminals reduce installation time
- Configurable Wiegand output
- ISO compliant
- Lifetime warranty

Kantech™ Multi-Technology Readers are one of the industry's most versatile card readers with their ability to read serial numbers from multiple 13.56 MHz smart card technologies, MIFARE® encrypted sectors, and most of the common 125 KHz proximity cards including ioProx with Kantech XSF format – all with one reader. This cost-effective solution enables you to transition from proximity to smart cards over time or to utilize both smart cards and proximity cards concurrently in your facility.

Kantech Multi-Technology Readers are configurable to read encrypted MIFARE® sectors using standard or custom MIFARE read keys. These readers also feature a keypad model which outputs keypad commands and a PIN in 8-bit burst Wiegand data.

Important features such as a built-in tamper switch, two-piece connectors, and isolation spacers help reduce installation time. Coupled with robust environmental ratings and a lifetime warranty, Kantech Multi-Technology Readers are the clear choice for companies looking for a powerful, cost-effective way to use various card technologies.

(1) Reader continuously cycles between 125 KHz and 13.56 MHz and, depending on the frequency cycle when card is presented, the reader will either output the proximity card number or the unencrypted smart card serial number.

Physical

Dimensions
Model P345MTR .... 111 x 84 x 28 mm (4.37 x 3.31 x 1.10 in), single-gang
Model P345KPMTR .... 111 x 84 x 28 mm (4.37 x 3.31 x 1.10 in), single-gang with keypad
Minimum Wiring .... Five conductors including one LED control line
Cable Recommendations .... 22 AWG [60 m (200 ft) max] or 18 AWG [150 m (500 ft) max], stranded
Wiring Terminations .... Plug-in screw terminals
Color .... Black
Accessories .... European surface mount kit Isolation spacer

Environmental

Environment .... UL listed for interior or exterior
Operating Temperature .... -35° to 67°C (-31º to 151ºF)
Humidity Range .... 0 to 100%
Index of Protection IP65

Electrical

Power Supply .... 9.4 to 16 VDC 125 mA max @ 12 VDC

Regulatory

Agency Certifications .... FCC Part 15, CE, UL 294 full outdoor
Compliance .... ISO 14443A
ISO 14443B
ISO 15693

Operational

Read Range .... Up to 102 mm (4 in) depending on technology of card
Read Time .... Technology dependent (typically < 300 msec)

Wiring Connector Pinouts

Pin	Description
1	Beeper
2	Ground
3	Power (9.4 to 16 VDC)
4	D1 Wiegand
5	D0 Wiegand
6	Reserved for future use
7	External green LED control
8	External red LED control
9	A – RS485 – used for flash upgrade
10	B – RS485 – used for flash upgrade
11	Tamper (normally closed)
12	Tamper (normally closed)

Programming and Format Information

Card Technologies Supported
ioProx Kantech XSF
HID with Kantech Secured Format (KSF)
HID proximity
CASI® ProxLite®
Deister proximity
ISO 14443A serial number
MIFARE® serial number
DESFire serial number
ISO 14443B serial number
ISO 15693 serial number
iCLASS® serial number
MIFARE sectors

Controller Communications
Wiegand

Configurable Using Program Card
Pass-through[2]
Fixed length[3] (26-bit, 32-bit, 35-bit, 37-bit, 64-bit)
CASI ProxLite 44-bit pass-through
MIFARE sectors
   Select a sector (0-15)
   Customize encryption keys
   Specify data format (number of bits output)
   Enable PIN-on-smart-card functionality

Ordering Information

P345MTR .... Multi-Technology reader with ioProx support, smart card & proximity, up to 10.2 cm (4 in) read range depending on technology of card, single-gang, black

P345KPMTR........... Multi-Technology reader with ioProx support, integrated keypad, smart card & proximity, up to 10.2 cm (4 in) read range depending on technology of card, single-gang , black

(2) Pass-through – the default setting for Kantech Multi-Technology Readers that allows the reader to send all the data on the card.
(3) Fixed length – the reader can be configured to output a fixed length by padding or truncating data on the card.

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