

MULTISMART READERS



INID MultiSmart PIN readers

INID MultiSmart readers with PIN keypad provide a 3 x 4 matrix in a mullion style housing with back lighted symbols. The lighting is started by either pressing any key or presenting a card. PIN code entry is configurable from one to twelve characters in a PIN code string. Key encoding is provided by means of customer defined key tables. The back lighted feature allows for installation and use in low-light environments.

Output protocols

INID MultiSmart readers support: Wiegand, Clock & Data, TTL serial, RS232, RS485, RS422, and CAN (see: Protocol interfaces and models).

Card handling

Card handling is provided in both transparent mode and reader mode. In transparent mode the reader automatically creates the requested output based on the information programmed in "auto formatted" cards. In reader mode, the requested output is created via the programmed parameters that control the operation of the highly flexible read and data engines of the reader.

In Field programmable

INID MultiSmart readers are field programmable. Dismounting of readers is not required with contactless programming cards. Field programming allows changes to the function of the reader, adoption to changing security requirements, and loading of new firmware with new technologies and features.

Security features

INID MultiSmart readers provide as standard several extra security features:

Tamper detection: To detect opening of the reader housing, signaling is provided via customer defined actions.

Key store: Each reader contains uniquely AES encrypted key storage for reader and card security keys.

Key diversification: is available on all supported technologies to provide higher security by uniquely securing the data on the card.

INID MultiSmart readers are flexible by design. Only one application for access control that supports single and multi card environments. INID MultiSmart readers come in various models: with and without PIN keypad, with different interfaces. The field programmable capabilities future proof your investment.

Technologies

INID MultiSmart readers support:

ISO14443-3A: Mifare Classic, Mifare Ultra Light and Mifare Plus level 1.

ISO14443-4A: DESFire 0.6 & EV1, SmartMX and Mifare Plus level 2 & 3.

ISO14443-4B: Infineon, Atmel and ST microelectronics.

NFC: peer-to-peer.

LF-Prox: EM4102, Hitag and credentials programmed for HID® and AWID® LF Proximity readers.

Multi-card capabilities

INID MultiSmart readers can be programmed to support up to five different card sets. Each card set defines: card type, input data handling, output data format, and protocol. This feature enables the use of a mixed card population with different card types, data encodings and or security settings. This feature makes the INID MultiSmart reader ideal for transitioning from one card technology to another or add existing card populations to your system.



TECHNICAL SPECIFICATIONS



| Power supply | | | |
|-------------------------------|------------------------|-------------------|----------------|
| Voltage range | | 7 – 24 Volt DC | |
| Power consumption | INID MultiSmart AC | 1300 mW (average) | 1750 mW (peak) |
| | INID MultiSmart AC PIN | 1300 mW (average) | 2050 mW (peak) |
| Current consumption @ 12 V DC | INID MultiSmart AC | 110 mA (average) | 146 mA (peak) |
| | INID MultiSmart AC PIN | 110 mA (average) | 171 mA (peak) |

| Environment | |
|------------------|---|
| Usage | Indoor and outdoor |
| Humidity | 0 – 95% non condensing |
| Temperature | Temperature -25 to +65 °C / -15 to 150 °F |
| Protection class | IP54 |

| Mechanical | |
|------------|------------------------------|
| Dimensions | 143x46x25 mm / 5.63"x1.8"x1" |
| Materials | UL94 V0 LEXAN |

| Technologies | |
|--------------|---|
| ISO14443-3A | Mifare, Mifare Ultra Light, Mifare Plus level 1 |
| ISO14443-4A | DESFire 0.6 & EV1, SmartMX, Mifare Plus level 2&3 |
| ISO14443-4B | Infineon, Atmel, ST Microelectronics |
| NFC | Active mode on all models |
| LF-Prox | HID® Prox, AWID®, EM4102 and Hitag |

| Protocol interfaces and models | | | PIN |
|--------------------------------|---------------------------------------|----------|----------|
| Wiegand | Active driven 0 - 5 VDC or open drain | 500-5005 | 500-5045 |
| Clock and Data | | | |
| TTL serial | 0 – 5 Volt levels | | |
| RS232 | Separate model | 500-5015 | 500-5055 |
| RS485/RS422 | Separate model | 500-5025 | 500-5065 |
| CAN | Separate model | 500-5035 | 500-5075 |

| User feedback | |
|------------------|---|
| Bi-color LED bar | Single bar or two controllable sections |
| Sounder | Multi-tone |

| Security features | |
|-------------------|---|
| Tamper detection | Detect and signal open housing |
| Key store | Per reader uniquely encrypted key storage |
| SAM AV2 | Optional |

| Installation | |
|--------------|---|
| Connections | Detachable 8 pin connector |
| Mounting | Two piece housing, front with electronics and wall mounting plate |

| PIN model specific | |
|--------------------|--|
| Actuators | Mechanical switch |
| Actions | 1.000.000 times minimum |
| Indicators | Back lighted symbols, sound and LED bar action |

| Compliance | |
|------------|----------------------|
| Listings | EN 50130-4 , CE, FCC |

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