

INID ISO 14443 SmartReaders



INID SmartReaders

INID SmartReaders are flexible by design. Only one application configurable for OSDP or traditional access control that support multi credential environments. INID SmartReaders come with and without PIN keypad and with different interfaces. The field programmable capabilities of INID SmartReaders future proof your investment.

Multi-credential capabilities

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

Technologies

INID SmartReaders support:

ISO14443-3A: MIFARE® Classic, MIFARE Ultralight®.

ISO14443-4A: MIFARE® DESFire® EV1 and V0.6, SmartMX.

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

NFC: peer-to-peer and support for passive credentials and devices.

Output protocols

INID SmartReaders are configurable for OSDP including Secure Channel or traditional access control: Wiegand, Clock & Data, TTL serial, RS485/RS422, RS232. (see Protocol interfaces and models)

PIN readers

INID SmartReaders with PIN keypad provide a 3 x 4 matrix in a mullion style housing with back lighted symbols. Back lighting is initiated by either pressing any key or presenting a credential. PIN code entry is configurable from one to twelve digits in a PIN code. The back lighted feature allows for installation and use in low-light environments.

Credential handling

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

In Field programmable

INID SmartReaders are field programmable. Dismounting of readers is not required with contactless programming credentials. 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 SmartReaders 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 credential security keys.

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

US government credentials

INID SmartReaders support PIV/PIV-I and TWIC/CAC credentials. INID ISO 14443 SmartReaders models 500-5000A and 500-5040A are the first readers to have received GSA FICAM APL2 Certification using OSDP with Secure Channel and are listed under GSA APL2 #10110 and #10111.

TECHNICAL SPECIFICATIONS



Power supply			
Voltage range		7 – 24 Volt DC	
Power consumption	INID ISO14443 AC	1350 mW (average)	2100 mW (peak)
	INID ISO14443 AC PIN	1350 mW (average)	2100 mW (peak)
Current consumption @ 12 V DC	INID ISO14443 AC	115 mA (average)	175 mA (peak)
	INID ISO14443 AC PIN	115 mA (average)	175 mA (peak)
Environment			
Usage		Indoor and outdoor	
Humidity		0 – 95% non condensing	
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® Classic, MIFARE Ultralight®	
ISO14443-4A		MIFARE® DESFire® EV1 (and version 0.6), SmartMX	
ISO14443-4B		Infineon, Atmel, ST Microelectronics	
NFC		Active mode on all models.	
Protocol interfaces and models		PIN	
Wiegand	Active driven 0 - 5 VDC or open drain	500-5000A	500-5040A
Clock and Data			
TTL serial	0 – 5 Volt levels		
RS485/RS422 serial			
RS485 OSDP	Separate model	500-5020	500-5060
RS232			
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 and certifications		EN 50130-4 , CE, FCC, IC, UL 294, ULC-S319	
Additional provisions			
Expansion bus		Provision for add-on modules	

MIFARE® Classic, MIFARE Ultralight®, MIFARE® DESFire® and SmartMX are trademarks of NXP Semiconductors. All other referenced brands, product names, service names and trademarks are the property of their respective owners.

INID cares for the environment, we design our products to be durable and suitable for complete recycling. Our aim is to provide a cradle to cradle life cycle.

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