Electronic Locking Solutions

O^{n}S RFID On-line Wall Reader

Secure your property with O^{n}S RFID wall readers at perimeter doors, parking areas, swimming pools, health facilities, etc. On-line card readers allow reception personnel to check openings as well as to authorize or deny card access in real time.

They offer a secure, standards-based and flexible platform that has become the new benchmark for highly adaptable, interoperable and secure access control solutions.

Additionally, O^{n}S RFID wall readers support Near Field Communication (NFC) smartphones via Seos, enabling a new class of portable identity credentials that can be securely provisioned and safely embedded into both fixed and mobile devices.

O^{n}S RFID wall readers include Open Supervised Device Protocol (OSDP), a new Security Industry Association (SIA) standard that together with Secure Channel Protocol (SCP) provides secure communications and central management.

- ☐ Technology-independent – Supports multiple technologies including MiFare® Classic and iCLASS®
- ☐ Standardized Communications – Open Supervised Device Protocol (OSDP) for secure, bidirectional communication.

High Security

- ☐ Provides multi-layered security beyond the card technology, providing added protection to identity data using SIOs.
- ☐ Anti-passback function.
- ☐ EAL5+ Certified Secure Element Hardware – Provides tamper-proof protection of keys/cryptographic operations.
- ☐ SIO Data Binding – Inhibits data cloning by binding an object to a specific credential.
- ☐ Secured communications using OSDP with Secure Channel Protocol.

Adaptability

- ☐ Near Field Communication (NFC) Card Emulation – Enables migration to access control on mobile devices.
- ☐ SIO Portability – Provides technology independence and portability to other smart card technologies.
- ☐ Upgradeable Hardware Connection – Allows all Wiegand -based communication readers to expand communication capabilities to OSDP, Hi-O and other bi-directional protocols.
- ☐ Customization and management from a central location – Using OSDP make changes and manage all attached OSDP readers over RS485 wiring.
- ☐ Allows for support of future technologies.

Sustainability

- ☐ Intelligent Power Management (IPM) – Reduces reader power consumption by as much as 75% compared to standard operating mode.
- ☐ Recycled Content – Contributes toward building LEED credits.
- ☐ Central management of connected readers using OSDP

Performance

- ☐ SIO Media Mapping – Simplifies deployment of third-part objects to multiple types of credentials.
- ☐ Field Programmable Readers – Provides secure upgrades for migration and extended lifecycle.
- ☐ RGB LEDs – Delivers increasing capability to notify users and trouble-shooters regarding system state.

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Specifications

Typical reading range	CLASS® SE: 2.8 cm (1.1") SE for MiFare® Classic: 2.0 cm (0.8")	
Color	Black	
Dimensions	4.8 x 10.3 x 2.3 cm (1.9" x 4.1" x 0.9")	
Weight (Pigtail)	114 gr (4.0 oz)	
Weight (Terminal Strip)	85 gr (3.0 oz)	
Operating Voltage	5-16 VDC, Linear supply recommended	
Current Draw	Standard Power Mode	60 mA
	Intelligent Power Management (IPM) Mode	35 mA
Peak Current Draw	Standard Power or IPM Mode)	100 mA
Power Consumption	Standard Power Mode @ 16VDC)	1 W
	w/ IPM @ 16VDC	0.6 W
Operating Temperature	-35 to 65 ºC (-31 to 150 ºF)	
Storage Temperature	-55 to 85 ºC (-67 to 185 ºF)	
Operating Humidity	5% to 95% relative humidity non-condensing	
Environmental Rating	IP55	
Transmit Frequency	13.56 MHz & 125 kHz	

13.56 MHz Card Compatibility

MiFare® Classic and iCLASS® Smart

Non-default programmable options include: additionally support - standard iCLASS Access Control Application (order with Standard interpreter)

- ISO14443A (MiFare®) CSN, ISO14443B CSN, ISO15693 CSN
- ISO14443A/B (FIPS-201 Transparent FASC-N Read) (order -F model with FIPS interpreter)

Communications

Optional OSDP with SCP over RS485

Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG) - Use Shielded cable for best results

Panel Connection

Pigtail or Terminal Strip

Certifications

CE (EU), RoHS, UL294/cUL**** (US), FCC Certification (US), IC (Canada), SRRC (China), C-tick (Australia, New Zealand), MIC (Korea), NCC (Taiwan), iDA (Singapore), FIPS-201 Transparent FASC-N Reader.