

## 2-Factor OSDP Readers

**Contactless, Contact or Dual Interface with PIN**  
**Dynamic High Visibility OLED Display**

### High Security Multi-Factor Authentication.

Whether you are Government or small business, you probably have doors that need 2-Factor high security, whether it be a:

- Data center
- SCIF
- BIO research lab
- R&D center
- Law enforcement

Our 2-Factor Card + PIN Readers are the most advanced high-security Readers available. The form factor optimizes a speedy, user-friendly experience and the architectural design works in any environment.



### With easier to use products comes better security

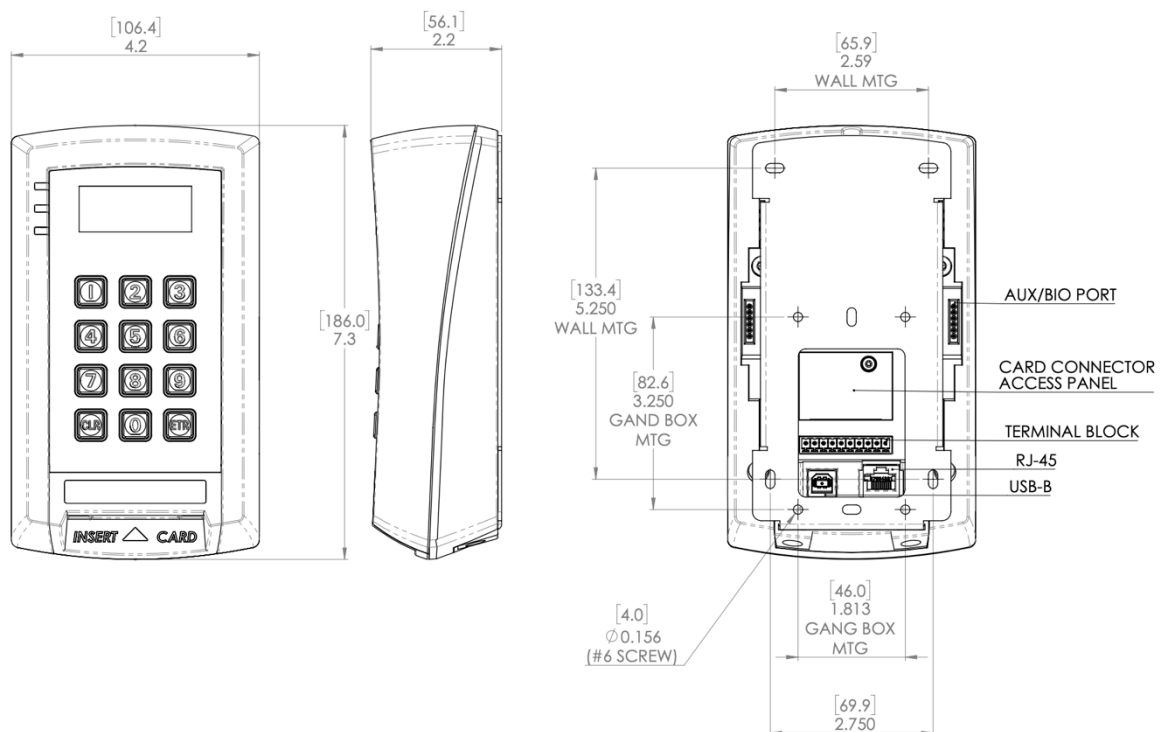
- IDFACTORS Readers are stacked with value-add functionality. Configured for plug-and-play installation with full OSDP support, they include advanced functionality that improves performance of even the most secure OSDP / FICAM systems by off-loading the cryptographic overhead from the panels. This yields faster time-through-the-door that cardholders demand.
- Our Readers dynamically sense the status of a card read and tune the RF antenna in real-time, resulting in a more reliable read transaction. The Reader also has a power management mode that reduces standby power by 50%.
- The user interface is a high-contrast OLED display with 4-lines by 20 characters that self-adjusts to 3 x 20 and 2 x 20 for maximum visibility based on the displayed message. The keys are die-cast metal and the contact card connector has a high performance rating of 500,000 cycles.

## Features and Options

- Reads all PIV, CAC, TWIC, PIV-I, and PACSID™ Cards
- 2-Factor Contact interface per FIPS-201 and FICAM requirements for high security
- Native RSA 2048 challenge-response verifies the certificate CAK and PAK.
- Best-in-class contactless read range and speed minimizes card read errors.
- Contact-only mode is ideal for doors that may be sensitive to nearby “data sniffing.”
- Supports PIN to Card (PIV) and Pin to Panel
- Contact Card Acceptor rated at 500,000 insertions and includes an articulating shutter to block foreign debris and moisture.
- Supports OSDP Version 2.2 Secure Channel and Transparent Mode ADPU protocol.
- Firmware can be remotely reflashed & reconfigured via OSDP or locally at Reader.
- High contrast OLED display with outdoor environmental guides user and displays status in real time
- High-visibility Red, Green and Yellow LEDs provide a distinct indication of access status
- All IDFACTORS Readers are shipped pre-configured for plug-and-play installation.

### Optional Functionality

- FIPS-201 Crypto-accelerator for FICAM supports RSA-1024 & 2048, SHA-1, SHA-2, AES 128 & 256, 3DES and RNG
- Side-mounted mag-swipe reader is available on a special-order basis (contact factory for quotation)



## STANDARDS SUPPORTED

- ISO 7816-3 Contact Card-to-Reader Interface
- ISO 14443 Contactless Card-to-Reader Interface
- NIST 800-73 PIV Interfaces
- NIST 800-76 Biometric Data for PIV (where applicable)
- NIST 800-96 Cryptographic Algorithms
- NIST 800-116 (PACS Guidance)

## CREDENTIAL SUPPORT

- CAC, PIV, PIV-I, TWIC, PKPACS, PACSID

## LOGICAL & CARD READ PERFORMANCE

- T=0, T=1 Contact Smart Card Interface
- Type A and Type B Contactless Transmission Protocols
- Supports Collision Detection (Multiple Cards in Field)
- Contactless Read Range: 95%+ at 2.0 inches (5 cm)
- Maximum Read Range: less than 4 inches (10 cm)
- Transmission Bit Rates 106, 212 and 424 Kbits per sec.

## WIEGAND SUPPORT

- FASCN support for PIV cards
- GUID for PIV-I, TWIC, PKPACS & PACSID credentials
- Legacy ID from Prox or Mifare on PKPACS or PACSID

## OSDP SUPPORT

- OSDP Version 2.2 Secure Channel and Transparent Mode ADPU protocol

## READER I/O

- Red, Yellow & Green LEDs (High Visibility)
- Audible Speaker
- USB-C Configuration Port – PIN Protection Included

## PKI SUPPORT

- Readers support native RSA-1024, 2048, AES 128 & 256, 3DES, RSA-4096, RNG and Certificate Signature Validation
- Optional FIPS-140 crypto accelerator module reduces time by 30% (card dependent)

## ELECTRICAL SIGNAL

- **Access System Input:**  
Terminal Block or RJ-45 Connector  
Input Power: 12 Volt DC
- **Access System Outputs:**  
48-bit to 200-bit Wiegand, RS 485, Mag Stripe, OSDP

## PHYSICAL

- High impact weather resistant polycarbonate with TFE
- Reader Dimensions: 6.50" high x 4.50" wide x 2.75" deep
- Smart Card Connector rated to 500,000 Insertions (includes Shutter to protect against rain and debris)

## SYSTEM INTEGRATION

- PSG Global, LenelS2, Access Nsite, Honeywell/Vindicator,
- AMAG/KABA/Hirsch/Galaxy, JCI/Software House
- Schneider/Andover Controls, Sielox

## ENVIRONMENTAL

- Indoor or Outdoor.
- -25° F to + 125° F (-32° C to + 66° C)
- 95% relative humidity (non-condensing)

## WARRANTY

- With Contact Interface: 15 Months from Date of Purchase
- Contactless Only: 36 Months from Date of Purchase

## TECHNICAL SUPPORT

- 510-346-1510; 08:00 to 17:00 Pacific Time M-F
- On-line [www.idfactors.com/install](http://www.idfactors.com/install)

Part Numbers					
		Standard Part Number	With 125 KHz Prox Module	With FIPS-140 Cryptomodule	With Prox and Cryptomodule
Contact + PIN	Wiegand	74-01-1002	N/A	74-01-1002-XC	N/A
Contact + PIN	OSDP	74-12-1002	N/A	74-12-1002-XC	N/A
Contactless + PIN	Wiegand	74-01-3002	74-01-3002-PX	74-01-3002-XC	74-01-3002-PC
Contactless + PIN	OSDP	74-12-3002	74-12-3002-PX	74-12-3002-XC	74-12-3002-PC
Dual Interface + PIN	Wiegand	74-01-2003	N/A	74-01-2003-XC	N/A
Dual Interface + PIN	OSDP	74-12-2003	N/A	74-12-2003-XC	N/A