





HIGHLY ADAPTABLE AND SECURE HIGH FREQUENCY **ACCESS CONTROL SOLUTION**

- Powerfully Secure Provides layered security beyond the card media for added protection to identity data using SIOs.
- **Adaptable** Interoperable with a growing range of technologies (iCLASS® Seos™ and iCLASS SE® credential platforms, standard iCLASS*, MIFARE*, and MIFARE* DESFire* EV1 with custom data models) and form factors including mobile devices utilizing Seos™.
- Interoperable Open Supervised Device Protocol (OSDP) for secure, bidirectional communication.
- Streamlined Migration Simultaneous support for 125 kHz HID Prox®, Indala®, AWID and EM4102 for seamless migration; field programmable for secure upgrades and extended lifecycle.

HID Global's iCLASS SE® platform goes beyond the traditional smart card model to offer a secure, standards-based and flexible platform that has become the new benchmark for highly adaptable, interoperable and secure access control solutions.

multiCLASS SE® readers simplify migration from legacy technologies with support 125 kHz for HID Prox, Indala, AWID and EM4102, and provide customers the assurance that their existing investments can be leveraged to enhance their system as business requirements change. The technologyindependent readers also support iCLASS® Seos™ and iCLASS SE credential platforms, as well as standard iCLASS. MIFARE and

MIFARE DESFire EV1 with custom data models and other leading technologies.

Additionally, multiCLASS SE readers support mobile devices utilizing Seos, enabling a new class of portable identity credentials that can be securely provisioned and safely embedded into both fixed and mobile devices.

As part of HID Global's iCLASS SE platform that is based on the Secure Identity Object™ (SIO®) data model and Trusted Identity Platform® (TIP™), the powerfully secure multiCLASS SE readers offer advanced features such as layered security beyond the card media and tamper-proof protection of keys/cryptographic operations using EAL5+ secure element hardware.

multiCLASS SE 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.

POWERFULLY SECURE:

- Multi-Layered Security Ensures data authenticity and privacy through the multi-layered security of HID's SIO. 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.

HIGHLY ADAPTABLE:

- Mobile device support using card emulation Enables HID access control.

 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 bidirectional
- Field Programmable Readers Provides secure upgrades for migration and extended
- Customization and management from a central location Enables organization to make changes and manage all attached OSDP readers over R\$485 wiring. Simultaneous support for 125kHz HID Prox, Indala, AWID and EM4102. Allows for support of future technologies.

- SUSTAINABILITY AND MANAGEMENT:
 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.

- INTEROPERABLE:
 SIO Media Mapping Simplifies deployment of third-party objects to multiple types of credentials.
- Industry standard communications using OSDP. Custom programming support to read custom data models on MIFARE and MIFARE DESFire EV1 credentials.



SPECIFICATIONS

| | RP10 | RP15 | RP30 | RP40 | RPK40 |
|--|--|---|--|--|---|
| Base Part Number | 900P 900L | 910P 910L | 930P 930L | 920P 920L | 921P 921L |
| 13.56 MHz Single Technology ID-1 Credentials (Cards) - SIO Model Data | | | | | |
| | iCLASS SE*: 2.6" (6.6 cm) SE for DESFire* EV1: 1.2" (3.0 | iCLASS SE: 2.9" (7.4 cm) SE for DESFire® EV1: 1.4" (3.6 | iCLASS SE: 3.0" (7.6 cm) SE for DESFire® EV1: 1.5" (3.8 | iCLASS SE: 3.5" (8.9 cm) SE for DESFire® EV1: 1.6" (4.1 | iCLASS SE: 3.3" (8.4 cm) SE for DESFire® EV1: 1.4" (3.6 |
| | cm) SE for MIFARE® Classic: 1.5" (3.8 cm) | cm) SE for MIFARE Classic: 2.5" (6.4 cm) | cm) SE for MIFARE Classic: 2.3" (5.9 cm) | cm) SE for MIFARE Classic: 2.7" (6.9 cm) | cm) SE for MIFARE Classic: 2.9" (7.4 cm) |
| | | 13.56 MHz Sir | ngle Technology Tags/Fobs - SIO | Data Model | |
| Typical Read Range* (inches) | iCLASS SE: 1.1" (2.8 cm) SE for MIFARE Classic: 0.8" (2.0 cm) | iCLASS SE: 1.3" (3.3 cm) SE for MIFARE Classic: 0.9" (2.3 cm) | iCLASS SE: 1.4" (3.6 cm) SE for MIFARE Classic: 0.9" (2.3 cm) | iCLASS SE: 1.5" (3.8 cm) SE for MIFARE Classic: 0.6" (1.5 cm) | iCLASS SE: 1.4" (3.6 cm) SE for MIFARE Classic: 0.7" (1.8 cm) |
| | 125 kHz Single Technology ID-1 Credentials (Cards) - Respective Prox Data Model | | | | |
| | HID Prox / AWID: 2.5" (6.4 cm) Indala Prox: 1.5" (3.8 cm) EM4102: 1.5" (3.8 cm) | HID Prox / AWID: 2.8" (7.1 cm) Indala Prox: 1.7" (4.3 cm) EM4102: 2.2" (5.6 cm) | HID Prox / AWID: 2.7" (6.9 cm) Indala Prox: 1.0" (2.5 cm) EM4102: 2.0" (5.1 cm) | HID Prox / AWID: 2.5" (6.4 cm) Indala Prox: 1.2" (3.0 cm) EM4102: 1.8" (4.6 cm) | HID Prox / AWID: 1.4" (3.6 cm) Indala Prox: 0.8" (2.0 cm) EM4102: 0.8" (2.0 cm) |
| | 125 KHz Single Technology Tags/Fobs - Respective Prox Data Model † | | | | |
| | HID Prox / AWID: 0.8" (2.0 cm) | HID Prox / AWID: 0.9" (2.3 cm) EM4102: 0.7" (1.8 cm) | HID Prox / AWID: 0.8" (2.0 cm) Indala Prox: 0.8" (2.0 cm) EM4102: 0.8" (2.0 cm) | HID Prox / AWID: 0.8" (2.0 cm) EM4102: 0.7" (1.8 cm) | N/A |
| Mounting | Mini-Mullion Size; physically HID's smallest iCLASS readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface | Mullion Size; physically HID's second smallest iCLASS readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface | EU / APAC Square Size; 83.8 mm (3.3") square reader is designed to mount to and cover standard European and Asian back boxes | Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing | |
| Color | | | Black or Gray | | |
| Keypad | | N | 0 | ı | Yes (4x3) |
| Dimensions | 1.9" x 4.1" x 0.9" 4.8 cm x 10.3 cm x 2.3 cm | 1.9" x 6.0" x 0.9" 4.8 cm x 15.3 cm x 2.3 cm | 3.3" x 3.3" x 0.9" 8.4 cm x 8.4 cm x 2.3 cm | 3.3" x 4.8" x 1.0" 8.4 cm x 12.2 cm x 2.4 cm | 3.3" x 4.8" x 1.1" 8.5 cm x 12.2 cm x 2.8 cm |
| Product Weight (Pigtail) | 4.0oz (114g) | 5.2oz (149g) | 5.3oz (151g) | 7.8oz (222g) | 9.1oz (258g) |
| Product Weight (Terminal | 3.0oz (85g) | 4.3oz (124g) | 4.1oz (118g) | 7.6oz (216g) | 8.0oz (228g) |
| Strip) Operating Voltage Range | | | VDC, Linear supply recommende | | |
| Current Draw - Standard | 110 | 120 | 100 | 110 | 120 |
| Power Mode*** (mA) | 110 | 120 | 100 | 110 | 120 |
| Current Draw - Intelligent Power Management (IPM) Mode*** (mA) | 40 | 40 | 40 | 50 | 90 |
| Peak Current Draw - Standard Power or IPM Mode*** (mA) | 260 | 280 | 190 | 265 | 315 |
| NSC** Power Consumption - Standard Power Mode (W @ 16VDC) | 1.8 | 1.9 | 1.6 | 1.8 | 1.9 |
| NSC** Power Consumption - w/ IPM (W @ 16VDC) | 0.6 | 0.6 | 0.6 | 0.8 | 1.4 |
| Operating Temperature | -31º to 150º F (-35º to 65º C) | | | | |
| Storage Temperature | -67° to 185° F (-55° to 85° C) | | | | |
| Operating Humidity Environmental Rating | 5% to 95% relative humidity non-condensing IP55 | | | | |
| Transmit Frequency | 13.56 MHz & 125 kHz | | | | |
| 13.56 MHz Card Compatibility | Secure Identity Object™ (SIO*) on iCLASS SE/SR, SE for MIFARE DESFire EV1 and SE for MIFARE Classic (On by Default) Non-default programmable options include: additionally support - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - Mifare and Mifare DESFire EV1 custom data models | | | | |
| 125 kHz Card Compatibility [†] | HID Prox, AWID, Indala, EM4102 | | | | |
| 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 | UL294/cUL**** (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), iDA (Singapore), RoHS , FIPS-201 Transparent FASC-N Reader | | | | |
| Cryto Processor Hardware Common Criteria Rating | EAL5+ | | | | |
| Patents | US7180403, US7439862, US7124943, US5952935, US6058481, US6337619 | | | | |
| Housing Material | UL94 Polycarbonate | | | | |
| Manufactured with % of recycled content (Pigtail) Manufactured with % of | 10.5% | 11.0% | 11.0% | 10.5% | 10.9% |
| recycled content (Terminal Strip) | 10.5% | 11.0% | 10.0% | 11.0% | 12.3% |
| UL Ref Number Warranty | RP10E | RP15E | RP30E Limited Lifetime | RP40E | RPK40E |
| | * | Typical read range achieved in air. E | Different types of metal will cause some | e degradation (typically up to 20%). | · |

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^{*} Typical read range achieved in air. Different types of metal will cause some degradation (typically up to 20%). Use spacers to space product off metal and improve read range if required.
*** NSC = Normal Standard Current
**** Measured in accordance with UL294 standards
**** UL294 functionally certified for Wiegand output only

† If a technology read range is not listed, the compatibility is not currently available in the associated reader model.