



# multiCLASS™ SE™ Readers



## NEXT GENERATION HIGH-FREQUENCY ACCESS CONTROL

- **Supports Secure Identity Object™** – Multi-layer security beyond the card technology providing added protection to identity data.
- **Tamper Proof** – EAL5+ certified secure element hardware for protection of keys and cryptographic operations.
- **Trusted Identity Platform™ (TIP) enabled** – Provides trusted identity within a secure ecosystem of interoperable products.
- **Streamlined Migration** – Simultaneous support for 125 kHz HID Prox, Indala, AWID and EM4102 for seamless migration; field programmable for secure upgrades and extended lifecycle.
- **Intelligent Power Management** – Promotes environmental sustainability.

### HID's Secure Identity Object™ delivers three key benefits: portability, security and extensibility.

- **Chip Independence** – SIOs can reside on any card technology, microprocessor-based cards, NFC smartphones, USB tokens, computer drives, and other formats.
- **Device Independence** – Providing an additional layer of security with additional key diversification, authentication and encryption.
- **Open** – SIOs are defined using open standards that can support any piece of data, including data for access control, biometrics, vending, time-and-attendance, and many other applications.

HID Global's next generation access control platform offers a secure, standards-based, technology-independent and flexible identity data structure based on Secure Identity Object™ (SIO), a new portable credential methodology from HID. Building on the success of its flagship HID iCLASS® standard for 13.56 MHz contactless smart card technology, multiCLASS SIO-Enabled (multiCLASS™ SE™) readers are part of the next-generation access control platform and open ecosystem based on HID's Trusted Identity Platform (TIP) architecture for advanced applications,

mobility and heightened security.

multiCLASS SE readers enable a new class of portable identity credentials that can be securely provisioned and safely embedded into both fixed and mobile devices. Designed to support the ever-expanding universe of multiple credential technologies and seamless migration, multiCLASS SE readers are also Near Field Communication (NFC) compliant, deliver enhanced functionality for future applications, and include intelligent power management and recycled content for sustainability.

#### HIGHER SECURITY:

- 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.
- Expanded iCLASS Elite™ Program – Extends private security by protecting uniquely keyed credentials, SIOs and programming update keys.

#### 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 troubleshooters regarding system state.

#### 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.

#### USABILITY OF APPLICATIONS:

- New Models. RP10 and RP30 provide multiCLASS functionality in new form factors, creating more flexible installation options.
- Near Field Communication (NFC) Card Emulation – Enables migration to HID 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.



## SPECIFICATIONS

	RP10	RP15	RP30	RP40	RPK40
<b>Base Part Number</b>	900P 900L	910P 910L	930P 930L	920P 920L	921P 921L
<b>Typical Read Range* (Inches)</b>	<b>13.56 MHz Single Technology ID-1 Credentials (Cards) - SIO Model Data</b>				
	iCLASS® SE™: 2.6" (6.6 cm) SE for DESFire® EV1: 1.2" (3.0 cm) SE for MIFARE® Classic: 1.5" (3.8 cm)	iCLASS SE: 2.9" (7.4 cm) SE for DESFire® EV1: 1.4" (3.6 cm) SE for MIFARE Classic: 2.5" (6.4 cm)	iCLASS SE: 3.0" (7.6 cm) SE for DESFire® EV1: 1.5" (3.8 cm) SE for MIFARE Classic: 2.3" (5.9 cm)	iCLASS SE: 3.5" (8.9 cm) SE for DESFire® EV1: 1.6" (4.1 cm) SE for MIFARE Classic: 2.7" (6.9 cm)	iCLASS SE: 3.3" (8.4 cm) SE for DESFire® EV1: 1.4" (3.6 cm) SE for MIFARE Classic: 2.9" (7.4 cm)
	<b>13.56 MHz Single Technology Tags/Fobs - SIO Data Model</b>				
	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)
	<b>125 kHz Single Technology ID-1 Credentials (Cards) - Respective Prox Data Model</b>				
	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)
<b>125 kHz Single Technology Tags/Fobs - Respective Prox Data Model †</b>					
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	
<b>Mounting</b>	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	
<b>Color</b>	Black or Gray				
<b>Keypad</b>	No				Yes (4x3)
<b>Dimensions</b>	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
<b>Product Weight (Pigtail)</b>	4.0oz (114g)	5.2oz (149g)	5.3oz (151g)	7.8oz (222g)	9.1oz (258g)
<b>Product Weight (Terminal Strip)</b>	3.0oz (85g)	4.3oz (124g)	4.1oz (118g)	7.6oz (216g)	8.0oz (228g)
<b>Operating Voltage Range</b>	5-16 VDC, Linear supply recommended				
<b>Current Draw - Standard Power Mode*** (mA)</b>	60	60	75	75	110
<b>Current Draw - Intelligent Power Management (IPM) Mode*** (mA)</b>	35	35	35	35	65
<b>Peak Current Draw - Standard Power or IPM Mode*** (mA)</b>	100	100	110	110	130
<b>NSC** Power Consumption - Standard Power Mode (W @ 16VDC)</b>	1	1	1.2	1.2	1.8
<b>NSC** Power Consumption - w/ IPM (W @ 16VDC)</b>	0.6	0.6	0.6	0.6	1
<b>Operating Temperature</b>	-31° to 150° F (-35° to 65° C)				
<b>Storage Temperature</b>	-67° to 185° F (-55° to 85° C)				
<b>Operating Humidity</b>	5% to 95% relative humidity non-condensing				
<b>Environmental Rating</b>	IP55				
<b>Transmit Frequency</b>	13.56 MHz & 125 kHz				
<b>13.56 MHz Card Compatibility</b>	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 -ISO14443A/B (FIPS-201 Transparent FASC-N Read) (order -F model with FIPS interpreter)				
<b>125 kHz Card Compatibility†</b>	HID, AWID, Indala, EM4102				
<b>Cable Distance</b>	Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG)				
<b>Panel Connection</b>	Pigtail or Terminal Strip				
<b>Certifications</b>	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				
<b>Crypto Processor Hardware Common Criteria Rating</b>	EAL5+				
<b>Patents</b>	US7180403, US7439862, US7124943, US5952935, US6058481, US6337619				
<b>Housing Material</b>	UL94 Polycarbonate				
<b>Manufactured with % of recycled content (Pigtail)</b>	10.5%	11.0%	11.0%	10.5%	10.9%
<b>Manufactured with % of recycled content (Terminal Strip)</b>	10.5%	11.0%	10.0%	11.0%	12.3%
<b>UL Ref Number</b>	RP10D	RP15D	RP30D	RP40D	RPK40D
<b>Warranty</b>	Limited Lifetime				

\* = 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 Standby 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.

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