

PHYSICAL ACCESS SOLUTIONS





## 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 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 iCLASS Seos 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 and other bidirectional
- Field Programmable Readers Provides secure upgrades for migration and extended
- make changes and manage all attached OSDP readers over RS485 wiring. Support for 125kHz HID Prox, Indala, AWID and EM4102. Flexible to support 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	
	3002		chnology ID-1 Credentials (Cards		3212	
	iCLASS SE*: 2.5" (6.4 cm) SE for DESFire* EV1: 1" (2.5 cm) SE for MIFARE* Classic: 2.3" (5.8 cm)	iCLASS SE: 2.5" (6.4 cm) SE for DESFire® EV1: 1" (2.5 cm) SE for MIFARE Classic: 2.3" (5.8 cm)	iCLASS SE: 3.3" (8.4 cm) SE for DESFire® EV1: 2" (5.1 cm) SE for MIFARE Classic: 2.3" (5.8 cm)	iCLASS SE: 4.5" (11.4 cm) SE for DESFire® EV1: 2" (5.1 cm) SE for MIFARE Classic: 4" (10.1 cm)	iCLASS SE: 4.5" (11.4 cm) SE for DESFire® EV1: 2" (5.1 cm) SE for MIFARE Classic: 4" (10.1 cm)	
		13.56 MHz Single Technology Tags/Fobs - SIO Data Model				
Typical Read Range* (inches)	iCLASS SE: 1" (2.5 cm) SE for MIFARE Classic: 0.5" (1.3 cm)	iCLASS SE: 1" (2.5 cm) SE for MIFARE Classic: 0.5" (1.3 cm)	iCLASS SE: 1.5" (3.8 cm) SE for MIFARE Classic: 1" (2.5 cm)	iCLASS SE: 2.3" (5.8 cm) SE for MIFARE Classic: 1.5" (3.8 cm)	iCLASS SE: 2.3" (5.8 cm) SE for MIFARE Classic: 1.5" (3.8 cm)	
	HID Prox / AWID: 2" (5.1 cm)	HID Prox / AWID: 2" (5.1 cm)	y ID-1 Credentials (Cards) - Resp HID Prox / AWID: 2.3" (5.8 cm)	HID Prox / AWID: 2.5" (6.4 cm)	HID Prox / AWID: 2.5" (6.4 cm)	
	Indala Prox: 1" (2.5 cm) EM4102: 3.5" (8.9 cm)	Indala Prox: 1" (2.5 cm) EM4102: 3.5" (8.9 cm)	Indala Prox: 1" (2.5 cm) EM4102: 2" (5.1 cm)	Indala Prox: 1" (2.5 cm) EM4102: 4" (10.2 cm)	Indala Prox: 1" (2.5 cm) EM4102: 3" (7.6 cm)	
	125 KHz Single Technology Tags/Fobs - Respective Prox Data Model †					
	HID Prox / AWID: 1" (2.5 cm) Indala Prox: 0.5" (1.3 cm) EM4102: 1.3" (3.3 cm)	HID Prox / AWID: 1" (2.5 cm) Indala Prox: 0.5" (1.3 cm) EM4102: 1.3" (3.3 cm)	HID Prox / AWID: 1.3" (3.3 cm) Indala Prox: 0.5" (1.3 cm) EM4102: 1.3" (3.3 cm)	HID Prox / AWID: 1.5" (3.3 cm) Indala Prox: 0.5" (1.3 cm) EM4102: 2.3" (5.8 cm)	HID Prox / AWID: 1.5" (3.3 cm) Indala Prox: 0.5" (1.3 cm) EM4102: 2.3" (5.8 cm)	
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	I	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		5-16	S VDC, Linear supply recommende	l		
Current Draw - Standard	75	75	85	85	95	
Power Mode (mA) <sup>†</sup>	73	73	63	65	93	
Current Draw - Intelligent Power Management (IPM) Mode*** (mA)	40	40	50	50	70	
Peak Current Draw - Standard Power or IPM Mode*** (mA)	200	200	200	200	220	
NSC** Power Consumption - Standard Power Mode (W @ 16VDC)†	1.2	1.2	1.4	1.4	1.5	
NSC** Power Consumption - w/ IPM (W @ 16VDC)	0.6	0.6	0.8	0.8	1.1	
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 Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT)					
Transmit Frequency	13.56 MHz & 125 kHz					
13.56 MHz Card Compatibility	Secure Identity Object™ (SIO*) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default) - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - Mifare and Mifare DESFire EV1 custom data models - FIPS-201 Credentials including PIV, PIV-I, CIV, CAC, TWIC, FRAC; Contactless Interface					
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)	10.5%	11.0%	11.0%	10.5%	10.9%	
Manufactured with % of recycled content (Terminal Strip)	10.5%	11.0%	10.0%	11.0%	12.3%	
UL Ref Number	RP10E	RP15E	RP30E	RP40E	RPK40E	
Warranty		Torisal assala	Limited Lifetime			

<sup>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, See Installation Guide for Details.

Measured in accordance with UL294 standards; See Installation Guide for Details.

Certification for 9xxP part numbers only. Not available on 9xxL part numbers.

Tyalues shown are for 9xxP base part numbers. See Installation Guide for Current Draw values for 9xxL base part numbers.</sup>