PHYSICAL ACCESS SOLUTIONS







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.

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.

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 technolo
- Card technologies. Upgradeable Hardware Connection Allows all Wiegand-based communication readers to expand communication capabilities to OSDP and other bidirectional
- protocols Field Programmable Readers - Provides secure upgrades for migration and extended ifecycle

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		5216	
	iCLASS SE [®] : 2.9" (7.3 cm) SE for	iCLASS SE: 3.5" (8.8 cm) SE	iCLASS SE: 2.7" (6.8 cm)	iCLASS SE: 4.4" (11.1 cm)	iCLASS SE: 5.3" (13.4 cm)	
	DESFire [®] EV1: 2.1" (5.3 cm) SE for MIFARE [®] Classic: 2.4"	for DESFire [®] EV1: 2.3" (5.8 cm) SE for MIFARE Classic: 2.7"	SE for DESFire® EV1: 1.3" (3.3 cm) SE for MIFARE Classic: 2.9"	SE for DESFire® EV1: 2.7" (6.8 cm) SE for MIFARE Classic: 3.0"	SE for DESFire® EV1: 3.1" (7.8 cr SE for MIFARE Classic: 3.6	
	(6.0 cm)	(6.8 cm)	(7.3 cm)	(7.6 cm)	(9.1 cm)	
		13.56 MHz Sii	ngle Technology Tags/Fobs - SIO	Data Model		
	iCLASS SE: 1.3" (3.3 cm)	iCLASS SE: 1.8" (4.5 cm)	iCLASS SE: 1.3" (3.3 cm)	iCLASS SE: 2.1" (5.3 cm)	iCLASS SE: 2.8" (7.1 cm)	
	SE for MIFARE Classic: 0.7"	SE for MIFARE Classic: 1.0"	SE for MIFARE Classic: 1.0"	SE for MIFARE Classic: 1.0"	SE for MIFARE Classic: 1.3	
Typical Read Range* (inches)	(1.7 cm)	(2.5 cm)	(2.5 cm)	(2.5cm)	(3.3 cm)	
• • • •		125 kHz Single Technolog	1			
	HID Prox / AWID: 2.6" (6.6 cm) Indala Prox: 1.5" (3.8 cm)	HID Prox / AWID: 2.8" (7.1 cm) Indala Prox: 1.7" (4.3 cm)	HID Prox / AWID: 2.5" (6.3 cm) Indala Prox: 1.0" (2.5 cm)	HID Prox / AWID: 2.6" (6.6 cm) Indala Prox: 1.2" (3.0 cm)	HID Prox / AWID: 2.7" (6.8 c Indala Prox: 0.8" (2.0 cm)	
	EM4102: 4.0" (10.1 cm)	EM4102: 5.0" (12.7 cm)	EM4102: 4.2" (10.6 cm)	EM4102: 4.3" (10.9 cm)	EM4102: 3.1" (7.8 cm)	
		125 KHz Single Tec	hnology Tags/Fobs - Respective	Prox Data Model [†]		
		HID Prox / AWID: 1.7" (4.3 cm)	HID Prox / AWID: 1.4" (3.5 cm)			
	HID Prox / AWID: 1.8" (4.5 cm) EM4102: 2.8" (7.1 cm)	EM4102: 3.4" (8.6 cm)	Indala Prox: 0.8" (2.0 cm)	HID Prox / AWID: 1.7" (4.3 cm) EM4102: 2.7" (6.8 cm)	HID Prox / AWID: 1.6" (4.1 cr EM4102: 1.9" (4.8 cm)	
			EM4102: 2.6" (6.6 cm)			
	Mini-Mullion Size; physically	Mullion Size; physically HID's		Wall Switch Size; designed to mount and cover single gang		
	HID's smallest iCLASS	second smallest iCLASS	EU / APAC Square Size; 83.8			
Mounting	readers and are ideally suited for mullion-mounted door	readers and are ideally suited for mullion-mounted door	mm (3.3") square reader is designed to mount to and	switch boxes primarily used i		
Hounting	installations, U.S. single-gang	installations, U.S. single-gang	cover standard European and	a slotted mounting plate for E		
	J-box (with mud ring) or any	J-box (with mud ring) or any	Asian back boxes	spac	cing	
	flat surface	flat surface				
Color	Black or Gray					
Keypad	No Yes (4x3)				Yes (4x3)	
	1.9" × 4.1" × 0.9"	1.9" x 6.0" x 0.9"	3.3" × 3.3" × 0.9"	3.3" x 4.8" x 1.0"	3.3" x 4.8" x 1.1"	
Dimensions	4.8 cm x 10.3 cm x 2.3 cm	4.8 cm x 15.3 cm x 2.3 cm	8.4 cm x 8.4 cm x 2.3 cm	8.4 cm x 12.2 cm x 2.4 cm	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					-	
Strip)	3.0oz (85g)	4.3oz (124g)	4.1oz (118g)	7.6oz (216g)	8.0oz (228g)	
Operating Voltage Range		5-1	6 VDC, Linear supply recommende	ed		
Current Draw - Standard	75	75	85	85	95	
Power Mode (mA) ⁺ Current Draw - Intelligent						
Power Management (IPM)	40	40	50	50	70	
Mode*** (mA)						
Peak Current Draw -						
Standard Power or IPM Mode*** (mA)	200	200	200	200	220	
NSC** Power Consumption						
Standard Power Mode (W	1.2	1.2	1.4	1.4	1.5	
@ 16VDC)†						
NSC** Power Consumption	0.6	0.6	0.8	0.8	1.1	
- w/ IPM (W @ 16VDC)	0.8	0.8	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	5% to 95% relative humidity non-condensing					
Environmental Rating	IP55; IP65 if installed using IP65GSKT (sold separately)					
Transmit Frequency	13.56 MHz & 125 kHz					
	Secure Identity Object™ (SIO*) on iCLASS Seos, iCLASS SE/SR, SE for MIFARE DESFire EVI and SE for MIFARE Classic (On by Default)					
13.56 MHz Card	Non-default programmable options include: additionally support - standard iCLASS Access Control Application (order with Standard interpreter)					
Compatibility	-ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN					
		- Mifare ar	nd Mifare DESFire EV1 custom dat	a models		
25 kHz Card Compatibility	HID Prox, AWID, Indala, EM4102					
Communications	Optional OSDP with SCP over R5485					
	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, US7439	9862, US7124943, US5952935, US6	i058481, US6337619		
Housing Material		Γ	UL94 Polycarbonate	[r	
Manufactured with % of recycled content (Pigtail)	10.5%	11.0%	11.0%	10.5%	10.9%	
Manufactured with % of						
recycled content (Terminal	10.5%	11.0%	10.0%	11.0%	12.3%	
	1					
Strip)						
Strip) UL Ref Number	RP10E	RP15E	RP30E Limited Lifetime	RP40E	RPK40E	

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
 *
 Values shown are for 9xxP base part numbers. See Installation Guide for Current Draw values for 9xxL base part numbers.

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