





iCLASS 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 and form factors including mobile devices utilizing Seos®.
- Interoperable Open Supervised Device Protocol (OSDP) for secure, bidirectional communication.
- Versatile Extended read range is available for applications such as parking and gate control solutions.

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.

As part of HID Global's iCLASS SE platform for advanced security, the readers utilize state-ofthe-art authentication through the platform's Secure Identity Object (SIO) data model for trusted and secure communication between the card and reader to prevent unauthorized access. The iCLASS SE reader line is built on the Security Industry Association (SIA) Open

Supervised Device Protocol (OSDP) standard which also ensures secure transmission of data from the reader to the controller.

Additionally, iCLASS 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.

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.
- Secured communications using OSDP with Secure Channel Protocol. Expanded iCLASS Elite™ Program Extends private security by protecting
- uniquely keyed credentials, SIOs and programming keys.

HIGHLY ADAPTABLE:

- obile device support using iCLASS Seos enabling HID access control.
- Flexible to support future technologies. Field Programmable Readers Provides secure upgrades for migration

SUSTAINABILITY AND MANAGEMENT:

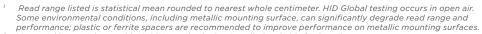
- Intelligent Power Management (IPM) Reduces reader power consumption by as much as 75% compared to standard operating mode. Recycled Content - Contributes toward building LEED credits.

- ${\sf SIO}$ Media Mapping Simplifies deployment of third-party objects to multiple types of credentials.
- Industry standard communications using OSDP.
- Custom programming support to read models on MIFARE and MIFARE DESFire EV1 credentials



SPECIFICATIONS

Model Name	R10	R15	R40	RK40	R90	
Base Part Number	900N	910N	920N	921N	940N	
		13.56 MHz Single Technology ID				
	iCLASS Seos: 2.4" (6 cm)	iCLASS Seos: 2.4" (6 cm)	iCLASS Seos: 3.2" (8 cm)	iCLASS Seos: 2.0" (5 cm)	iCLASS Seos: 5.9" (15 cm)	
	iCLASS: 3.6" (9 cm)	iCLASS: 3.6" (9 cm)	iCLASS: 5.2" (13 cm)	iCLASS: 5.5" (14 cm)	iCLASS: 14.2" (36 cm)	
Typical Read Range ¹	MIFARE Classic: 2.4" (6 cm)	MIFARE Classic: 2.4" (6 cm)	MIFARE Classic: 3.9" (10 cm)	MIFARE Classic: 5.1" (13 cm)	MIFARE Classic: 9.4" (24 cm)	
	MIFARE DESFire EV1: 2.4" (6 cm)	MIFARE DESFire EV1: 2.4" (6 cm) 13.56 MHz Single Technology Ta	MIFARE DESFire EV1: 3.2" (8 cm) gs/Fobs - SIO data Model	MIFARE DESFire EV1: 2.0" (5 cm)	MIFARE DESFire EV1: 5.9" (15 cm	
	iCLASS: 1.6" (4 cm)	iCLASS: 1.6" (4 cm)	iCLASS: 2.8" (7 cm)	iCLASS: 3.1" (8 cm)	iCLASS: 7.5" (19 cm)	
	MIFARE Classic: 1.2" (3 cm)	MIFARE Classic: 1.2" (3 cm)	MIFARE Classic: 2.0" (5 cm)	MIFARE Classic: 2.0" (5 cm)	MIFARE Classic: 3.1" (8 cm)	
		Mullion Size; physically HID's	Wall Switch Size; designed to	Wall Switch Size; designed to		
	Mini-Mullion Size; physically HID's smallest iCLASS® readers and are	second smallest iCLASS	mount and cover single gang	mount and cover single gang		
	ideally suited for mullion-mounted	readers and are ideally suited	switch boxes primarily used	switch boxes primarily used	Mounts on any standard back	
Mounting	door installations, U.S. single-gang	for mullion-mounted door	in the Americas and includes	in the Americas and includes	boxes or any flat surface	
	J-box (with mud ring) or any flat	installations, U.S. single-gang J-box (with mud ring) or any	a slotted mounting plate for European and Asian back box	a slotted mounting plate for European and Asian back box		
	surface	flat surface	spacing	spacing		
Color			Black			
Keypad		No		Yes (4x3)	No	
Dimensions	1.9" × 4.1" × 0.9"	1.9" x 6.0" x 0.9"	3.3" x 4.8" x 1.0"	3.3" x 4.8" x 1.1"	13.1" x 13.1" x 1.55"	
	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 12.2 cm x 2.4 cm	8.5 cm x 12.2 cm x 2.8 cm	33.3cm x 33.3cm x 3.9cm	
Product Weight	3.9 oz (113g)	5.3 oz (151g)	7.7 oz (220g)	9.0 oz (256g)	N/A	
(Pigtail) Product Weight						
(Terminal Strip)	2.9 oz (84g)	4.2 oz (120g)	7.5 oz (215g)	8.0oz (226g)	4lb 1oz (1844g)	
Operating Voltage			I.			
Range		5-16 VDC		5-16 VDC	12 VDC or 24 VDC	
Current Draw -						
Standard Power Mode ²	60 @ 16V	60 @ 16V	65 @ 16V	85 @ 16V	110 @ 12V	
(mA)						
Current Draw - Intelligent Power						
Management (IPM)	35 @ 16V	35 @ 16V	40 @ 16V	60 @ 16V	30 @ 12V	
Mode ² (mA)						
Peak Current Draw -						
Standard Power or IPM	200 @ 16V	200 @ 16V	200 @ 16V	220 @ 16V	300 @ 12V	
Mode ² (mA)						
NSC ³ Power Consumption -	1.0 @ 16V	1.0 @ 16V	1.0 @ 16V	1.4 @ 16V	1.3 @ 12V	
Standard Power Mode	1.0 @ 10 V	1.0 @ 10 V	1.0 @ 10 V	1.4 @ 10 V	1.5 @ 12 V	
NSC ³ Power						
Consumption -	0.6 @ 16V	0.6 @ 16V	0.6 @ 16V	1 @ 16V	.4 @ 12V	
w/ IPM			710 - 1500 5 (750 - 650 0)			
Operating Temperature	-31° to 150° F (-35° to 65° C)					
Storage Temperature Operating Humidity	-67º to 185º F (-55º to 85º C) 5% to 95% relative humidity non-condensing					
Environmental Rating	Indoor/Outdoor IP55; IP65 if installed with optional gasket IP65					
Transmit Frequency		macon catacon ii 33, ii 63 ii iiisi	13.56 MHz		11 03	
Transmit Trequency	Secure Ide	entity Object™ (SIO) on iCLASS Sec		re EVI and MIFARE Classic (On by	/ Default)	
13.56 MHz Card			and MIFARE DESFire EV1 custo			
Compatibility	 standard iCLASS Access Control Application (order with Standard interpreter) 					
Companionity			IIFARE) CSN, ISO14443B CSN, IS			
			eliCa™4 CSN, CEPAS4 CSN or CAI			
Communications	Wiegand, Clock-and-Data, Open Supervised Device Protocol (OSPD) via RS485					
Panel Connection	Pigtail or Terminal Strip				Terminal Strip	
	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand),				I.	
Certifications	SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, FIPS201 Transparent FASC-N Reader ⁴ , MIC (Japan) ⁴					
Cryto Processor						
Hardware Common			EAL5+			
Criteria Rating						
Patents	www.hidglobal.com/patents					
Housing Material			UL94 Polycarbonate	I	I	
Manufactured with % of recycled content	10.5%	11.0%	10.5%	10.9%	N/A	
(Pigtail)	10.570	11.576	10.576	10.5%		
Manufactured with %						
of recycled content	11.0%	11.5%	11.0%	12.4%	11.00%	
(Terminal Strip)						
UL Ref Number Warranty	R10E	R15E	R40E Limited Lifetime	RK40E	R90E	



- Measured in accordance with UL294 standards; See Installation Guide for Details NSC = Normal Standby Current; See Installation Guide for Details

Not available on R90 Model



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