PHYSICAL ACCESS SOLUTIONS







Manage, Upgrade and Configure via Mobile App

iCLASS SE® Readers can be easily and securely managed in-field through the HID Reader Manager Mobile App. With the addition of our Bluetooth Smart Module or Bluetooth Smart/ OSDP upgrade kit, you can update firmware, LED color, beeper response and credential keys or upgrade existing readers to support HID Mobile Access®.

HIGHLY ADAPTABLE AND SECURE HIGH FREQUENCY ACCESS CONTROL SOLUTION

- Layered Security 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's iCLASS SE® platform goes beyond the traditional smart card model to offer a secure, standards-based and flexible platform that is an enhanced highly adaptable, interoperable, and secure access control solution.

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

standard which supports 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.

ADDITIONAL SECURITY:

- Multi-Layered Security -- Supports data authenticity and privacy through the mulitlayered security of HID's SIO. EAL5+ certified Secure Element hardware provides protection of keys and
- 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 and extended lifecycle.

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 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 Sin	gle Technology ID-1 Cards – SIO	Data Model	
	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: 4.7" (12 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)
	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
Typical Read Range ¹	MIFARE DESFire EV1/EV2: 2.4"	MIFARE DESFire EV1/EV2: 2.4"	MIFARE DESFire EV1/EV2 3.2"	MIFARE DESFire EV1/EV2 2.0"	MIFARE DESFire EV1/EV2: 5.
Typical Read Range	(6 cm)	(6 cm)	(8 cm)	(5 cm)	(15 cm)
	13.56 MHz Single Technology Tags/Fobs - SIO data Model				
	iCl ASS: 16" (4 am)	15.56 MHZ SIII	iCLASS: 2.8" (7 cm)		iCLASS: 6.7// (17.em)
	iCLASS: 1.6" (4 cm)	iCLASS: 1.6" (4 cm)		iCLASS: 3.1" (8 cm)	iCLASS: 6.7" (17 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)
				mount and cover single gang	Metal gooseneck pedestal
Mounting	Ideally suited for mullion-m			n the Americas and includes a	without a metal back plate.
	or any flat surface		slotted mounting plate for European and Asian		Installation Guide for detail
	back box spacing				
Mounting Spacer	To be used when mounting on metallic surfaces, refer to How To Order Guide for part numbers Refer to installation guid				
Color					
Keypad		No	1	Yes (4x3)	No
Dimensions	1.9" × 4.1" × 0.9"	1.9" × 6.0" × 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"
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 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)	3.9 02 (1139)	5.5 02 (151g)	7.7 02 (2209)	9.0 02 (2509)	IN/A
Product Weight	20 07 (847)	12 07 (1207)	75 07 (215 m)	8 0 27 (226 2)	4lb 107 (1944a)
(Terminal Strip)	2.9 oz (84g)	4.2 oz (120g)	7.5 oz (215g)	8.0oz (226g)	4lb 1oz (1844g)
Operating Voltage		5 10 1/20	•	5.10.1/0.0	10.1/20 04.1/20
Range		5-16 VDC		5-16 VDC	12 VDC or 24 VDC
Current Draw -					
tandard 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 -					
tandard Power or IPM	200 @ 16V	200 @ 16V	200 @ 16V	220 @ 16V	300 @ 12V
Mode ² (mA)	200 @ 101	200 @ 101	200 @ 101	220 @ 101	0000 @ 121
NSC ³ Power					
Consumption -	1.0 @ 16V	1.0 @ 16V	1.0 @ 16V	1.4 @ 16V	1.3 @ 12V
Standard Power Mode		10 (2 10 1			
NSC ³ Power					
Consumption -	0.6 @ 16V	0.6 @ 16V	0.6 @ 16V	1 @ 16V	.4 @ 12V
w/ IPM					
perating Temperature			-31º to 150º F (-35º to 65º C)		1
Storage Temperature			-67° to 185° F (-55° to 85° C)		
Operating Humidity					
	Indoor/Outdoor IP55; IP65 if installed with optional gasket IP65				
Environmental Rating					
Transmit Frequency	13.56 MHz Secure Identity Object™ (SIO) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default)				
	Secure Ide				/ Default)
			and MIFARE DESFire EV1 custor		
13.56 MHz Card					
Compatibility	- ISO14443A (MIFARED) CSN, ISO14443B CSN, ISO15693 CSN				
	- FeliCa™4 CSN, CEPAS⁴ CSN or CAN - MIFARE DESFire EV2 via EV1 backward compatibility				
.					
Communications		Wiegand, Clock-and-Dat	a, Open Supervised Device Proto	ocol (OSPD) via RS485	
Panel Connection		Pigtail or Term	inal Strip		Terminal Strip
Fanel Connection		Pigtail of Term			
Reader Management	HID Reader Manager Mobile App for HID Mobile Access / OSDP infield upgrade, configuration, firmware upgrade and diagnostics				
Contillectio	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand),				
Certifications	SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan) ⁴				
Cryto Processor					
Hardware Common			EAL5+		
Criteria Rating					
Patents			www.hidglobal.com/patents		
Housing Material	UL94 Polycarbonate				
Manufactured with %					
of recycled content	10.5%	11.0%	10.5%	10.9%	N/A
of recycled content (Pigtail)	10.3%	11.0%	10.5%	10.9%	IN/A
Manufactured with %					
	11.0%	11 594	11.0%	12.494	11.00%
	11.0%	11.5%	11.0%	12.4%	11.00%
of recycled content			1		1
(Terminal Strip)	D105	DIFE	D405	DK 405	2005
	R10E	R15E	R40E Limited Lifetime	RK40E	R90E



Some environmental conditions, including metallic mounting surface, can significantly degrade read range and

performance; plastic or ferrite spacers are recommended to improve performance on metallic mounting surfaces.
² Measured in accordance with UL294 standards; See Installation Guide for Details
³ NSC = Normal Standby Current; See Installation Guide for Details

⁴ Not available on R90 Model



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