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**

- 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
			gle Technology ID-1 Cards – SIO		
Ī	iCLASS Seos: 2.4" (6 cm) iCLASS: 3.6" (9 cm)	iCLASS Seos: 2.4" (6 cm) iCLASS: 3.6" (9 cm)	iCLASS Seos: 3.2" (8 cm) iCLASS: 5.2" (13 cm)	iCLASS Seos: 2.0" (5 cm) iCLASS: 5.5" (14 cm)	iCLASS Seos: 4.7" (12 cm) iCLASS: 14.2" (36 cm)
Typical Read Range ¹	MIFARE Classic: 2.4" (6 cm) MIFARE DESFire EV1: 2.4" (6 cm)	MIFARE Classic: 2.4" (6 cm) MIFARE DESFire EV1: 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: 5.9" (15 cm)
	MIFARE DESFire EV1: 2.4" (6 cm) MIFARE DESFire EV1: 2.4" (6 cm) MIFARE DESFire EV1: 3.2" (8 cm) MIFARE DESFire EV1: 2.0" (5 cm) MIFARE DESFire EV1: 5.9" (15 cm) 13.56 MHz Single Technology Tags/Fobs - SIO data Model				
	iCLASS: 1.6" (4 cm)	iCLASS: 1.6" (4 cm)	iCLASS: 2.8" (7 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)
			Wall Switch Size; designed to	mount and cover single gang	Metal gooseneck pedestal,
Mounting	Ideally suited for mullion-mounted door installations		switch boxes primarily used in the Americas and includes a		without a metal back plate. See
	or any flat	t surface	slotted mounting plate for European and Asian back box spacing		Installation Guide for details.
Mounting Spacer	To be used when mounting on metallic surfaces, refer to How To Order Guide for part numbers Refer to installation guide				
Color	To be used when mounting on metallic surfaces, refer to now to often dude for part numbers Refer to installation guide Black				
Keypad		No	Black	Yes (4x3)	No
	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" × 13.1" × 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 (Pigtail)	3.9 oz (113g)	5.3 oz (151g)	7.7 oz (220g)	9.0 oz (256g)	N/A
Product Weight (Terminal Strip)	2.9 oz (84g)	4.2 oz (120g)	7.5 oz (215g)	8.0oz (226g)	4lb 1oz (1844g)
Operating Voltage Range	5-16 VDC 5-16 V			5-16 VDC	12 VDC or 24 VDC
Current Draw - Standard Power Mode ² (mA)	60 @ 16V	60 @ 16V	65 @ 16V	85 @ 16V	110 @ 12V
Current Draw - Intelligent Power					
Management (IPM) Mode² (mA)	35 @ 16V	35 @ 16V	40 @ 16V	60 @ 16V	30 @ 12V
Peak Current Draw - Standard Power or IPM	200 @ 16V	200 @ 16V	200 @ 16V	220 @ 16V	300 @ 12V
Mode ² (mA)					
NSC ³ Power					1 - 2 - 1111
Consumption - Standard Power Mode	1.0 @ 16V	1.0 @ 16V	1.0 @ 16V	1.4 @ 16V	1.3 @ 12V
NSC ³ Power					
Consumption - w/ IPM	0.6 @ 16V	0.6 @ 16V	0.6 @ 16V	1 @ 16V	.4 @ 12V
Operating Temperature	-31º to 150º F (-35º to 65º C)				
Storage Temperature	-67º to 185º F (-55º to 85º C)				
Operating Humidity	5% to 95% relative humidity non-condensing				
Environmental Rating	Indoor/Outdoor IP55; IP65 if installed with optional gasket IP65 13.56 MHz				
Transmit Frequency	I3.56 MHZ Secure Identity Object™ (SIO) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default)				
13.56 MHz Card Compatibility	- MIFARE Classic and MIFARE DESFire EVI custom data models - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - FeliCa ^{MS} CSN, CEPAS ⁴ CSN or CAN				
Communications			a, Open Supervised Device Proto		
Panel Connection	Pigtail or Terminal Strip Terminal Strip				
Reader Management	HID Reader Manager Mobile App for HID Mobile Access / OSDP infield upgrade, configuration, firmware upgrade and diagnostics				
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan) ⁴				
Cryto Processor Hardware Common	EAL5+				
Criteria Rating					
Patents	www.hidglobal.com/patents UL94 Polycarbonate				
Housing Material Manufactured with %	OE34 FolyCarbonate				
of recycled content (Pigtail)	10.5%	11.0%	10.5%	10.9%	N/A
Manufactured with % of recycled content	11.0%	11.5%	11.0%	12.4%	11.00%
(Terminal Strip)					
UL Ref Number	R10E	R15E	R40E	RK40E	R90E

- Read range listed is statistical mean rounded to nearest whole centimeter. HID Global testing occurs in open air. 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.
- Measured in accordance with UL294 standards; See Installation Guide for Details
- NSC = Normal Standby Current; See Installation Guide for Details
- ⁴ Not available on R90 Model





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