

iCLASS SE® Readers



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.

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®.

ADDITIONAL SECURITY:

- Multi-Layered Security -- Supports data authenticity and privacy through the multilayered 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:

- Mobile 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
Typical Read Range¹	13.56 MHz Single Technology ID-1 Cards – SIO Data Model				
	iCLASS Seos: 2.4" (6 cm) iCLASS: 3.6" (9 cm) MIFARE Classic: 2.4" (6 cm) MIFARE DESFire EV1/EV2: 2.4" (6 cm)	iCLASS Seos: 2.4" (6 cm) iCLASS: 3.6" (9 cm) MIFARE Classic: 2.4" (6 cm) MIFARE DESFire EV1/EV2: 2.4" (6 cm)	iCLASS Seos: 3.2" (8 cm) iCLASS: 5.2" (13 cm) MIFARE Classic: 3.9" (10 cm) MIFARE DESFire EV1/EV2 3.2" (8 cm)	iCLASS Seos: 2.0" (5 cm) iCLASS: 5.5" (14 cm) MIFARE Classic: 5.1" (13 cm) MIFARE DESFire EV1/EV2 2.0" (5 cm)	iCLASS Seos: 4.7" (12 cm) iCLASS: 14.2" (36 cm) MIFARE Classic: 9.4" (24 cm) MIFARE DESFire EV1/EV2: 5.9" (15 cm)
	13.56 MHz Single Technology Tags/Fobs – SIO data Model				
	iCLASS: 1.6" (4 cm) MIFARE Classic: 1.2" (3 cm)	iCLASS: 1.6" (4 cm) MIFARE Classic: 1.2" (3 cm)	iCLASS: 2.8" (7 cm) MIFARE Classic: 2.0" (5 cm)	iCLASS: 3.1" (8 cm) MIFARE Classic: 2.0" (5 cm)	iCLASS: 6.7" (17 cm) MIFARE Classic: 3.1" (8 cm)
Mounting	Ideally suited for mullion-mounted door installations or any flat surface		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		Metal gooseneck pedestal, without a metal back plate. See 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	Black				
Keypad	No			Yes (4x3)	No
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 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	13.1" x 13.1" x 1.55" 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 VDC	12 VDC or 24 VDC
Current Draw - Standard Power Mode² (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 Mode² (mA)	200 @ 16V	200 @ 16V	200 @ 16V	220 @ 16V	300 @ 12V
NSC³ Power Consumption - Standard Power Mode	1.0 @ 16V	1.0 @ 16V	1.0 @ 16V	1.4 @ 16V	1.3 @ 12V
NSC³ Power Consumption - w/ IPM	0.6 @ 16V	0.6 @ 16V	0.6 @ 16V	1 @ 16V	.4 @ 12V
Operating Temperature	-31° to 150° F (-35° to 65° C)				
Storage Temperature	-67° to 185° F (-55° to 85° C)				
Operating Humidity	5% to 95% relative humidity non-condensing				
Environmental Rating	Indoor/Outdoor IP55; IP65 if installed with optional gasket				IP65
Transmit Frequency	13.56 MHz				
13.56 MHz Card Compatibility	Secure Identity Object™ (SIO) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default) - MIFARE Classic and MIFARE DESFire EV1 custom data models - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - FeliCa™ CSN, CEPAS⁴ CSN or CAN - MIFARE DESFire EV2 via EV1 backward compatibility				
Communications	Wiegand, Clock-and-Data, Open Supervised Device Protocol (OSPD) via RS485				
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				
Crypto Processor Hardware Common Criteria Rating	EAL5+				
Patents	www.hidglobal.com/patents				
Housing Material	UL94 Polycarbonate				
Manufactured with % of recycled content (Pigtail)	10.5%	11.0%	10.5%	10.9%	N/A
Manufactured with % of recycled content (Terminal Strip)	11.0%	11.5%	11.0%	12.4%	11.00%
UL Ref Number	R10E	R15E	R40E	RK40E	R90E
Warranty	Limited Lifetime				

¹ 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.

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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