



iCLASS SE[®] Readers



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.

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.

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.

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.

Ideal for new and existing installations, iCLASS SE readers provide customers the assurance that their existing investments can be leveraged to enhance their system as business requirements change. The technology-independent readers also support iCLASS Seos and iCLASS SE credential platforms, as well as standard iCLASS, MIFARE and MIFARE DESFire EV1 supporting custom data models.

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 iCLASS 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.
- 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 card emulation - enabling HID access control.
- Allows for support of future technologies.
- Field Programmable Readers - Provides secure upgrades for migration and extended lifecycle.

- 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	R30	R40	RK40
Base Part Number	900N	910N	930N	920N	921N
Typical Read Range* (Inches)	13.56 MHz Single Technology ID-1 Credentials (Cards) – SIO Data Model				
	iCLASS SE*: 2.8" (7.1 cm) SE for DESFire® EV1: 1.6 (4.1 cm) SE for MIFARE® Classic: 2.6" (6.6 cm)	iCLASS SE: 2.6" (6.6 cm) SE for DESFire EV1: 1.6 (4.1 cm) SE for MIFARE Classic: 2.5" (6.4 cm)	iCLASS SE: 3.3" (8.4 cm) SE for DESFire EV1: 1.6 (4.1 cm) SE for MIFARE Classic: 2.7" (6.9 cm)	iCLASS SE: 3.5" (8.9 cm) SE for DESFire EV1: 1.8" (4.6 cm) SE for MIFARE Classic: 2.8" (7.1 cm)	iCLASS SE: 3.4" (8.6 cm) SE for DESFire EV1: 1.6 (4.1 cm) SE for MIFARE Classic: 2.9" (7.4 cm)
	13.56 MHz Single Technology Tags/Fobs – SIO data Model				
	iCLASS SE: 1.5" (3.8 cm) SE for MIFARE Classic: 1.2" (3.0 cm)	iCLASS SE: 1.1" (2.8 cm) SE for MIFARE Classic: 0.8" (2.0 cm)	iCLASS SE: 1.7" (4.3 cm) SE for MIFARE Classic: 1.2" (3.0 cm)	iCLASS SE: 1.8" (4.6 cm) SE for MIFARE Classic: 1.4" (3.6 cm)	iCLASS SE: 1.4" (3.6 cm) SE for MIFARE Classic: 0.5" (1.3 cm)
Mounting	Mini-Mullion Size; physically HID's smallest iCLASS® readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface	Mullion Size; physically HID's second smallest iCLASS readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface	EU / APAC Square Size; 83.8 mm (3.3") square reader is designed to mount to and cover standard European and Asian back boxes	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	
Color	Black or Gray				
Keypad	No				Yes (4x3)
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 3.3" x 0.9" 8.4 cm x 8.4 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
Product Weight (Pigtail)	3.9 oz (113g)	5.3 oz (151g)	5.2 oz (148g)	7.7 oz (220g)	9.0 oz (256g)
Product Weight (Terminal Strip)	2.9 oz (84g)	4.2 oz (120g)	4.0 oz (116g)	7.5 oz (215g)	8.0oz (226g)
Operating Voltage Range	5-16 VDC, Linear supply recommended				
Current Draw - Standard Power Mode*** (mA)	70	110	70	80	105
Current Draw - Intelligent Power Management (IPM) Mode*** (mA)	30	40	40	40	60
Peak Current Draw - Standard Power or IPM Mode*** (mA)	250	260	220	240	320
NSC** Power Consumption - Standard Power Mode (W @ 16VDC)	1.1	1.8	1.1	1.3	1.7
NSC** Power Consumption - w/ IPM (W @ 16VDC)	0.5	0.6	0.6	0.6	1
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	IP55				
Transmit Frequency	13.56 MHz				
13.56 MHz Card Compatibility	Secure Identity Object™ (SIO) on iCLASS SE/SR, SE for MIFARE DESFire EV1 and SE for MIFARE Classic (On by Default) Non-default programmable options include: additionally support - MIFARE and MIFARE DESFire EV1 custom data models - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN				
Communications	Optional OSDP with SCP over RS485 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				
Crypto Processor Hardware Common Criteria Rating	EAL5+				
Patents	US7124943, US6058481, US6337619				
Housing Material	UL94 Polycarbonate				
Manufactured with % of recycled content (Pigtail)	10.5%	11.0%	11.0%	10.5%	10.9%
Manufactured with % of recycled content (Terminal Strip)	11.0%	11.5%	10.5%	11.0%	12.4%
UL Ref Number	R10E	R15E	R30E	R40E	RK40E
Warranty	Limited Lifetime				

* 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

*** Measured in accordance with UL294 standards

**** UL294 functionally certified for Wiegand output only

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