



iCLASS SE® readers with magnetic stripe 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 ACCESS CONTROL SOLUTION**

- **Adaptable** – Move to a higher standard of security over time, as budget and resources allow.
- **Interoperable** – Supports a growing range of technologies including iCLASS Seos®, iCLASS SE, iCLASS®, MIFARE® Classic, MIFARE® DESFire® EV1, 125kHz proximity and magnetic stripe credentials to facilitate seamless migration.
- **Dynamic** – Supports future enhancements in access control, including HID Mobile Access powered by Seos® that enables the use of smartphones and other smart devices to open doors

HID Global's iCLASS SE® platform goes beyond the traditional smart card model to offer secure, standards-based access control solutions. This family of readers allows gradual migration from legacy technologies to the latest high frequency solutions for increased security and functionality.

iCLASS SE and multiCLASS SE® readers simplify migration from legacy technologies. The readers support a broad range of magnetic stripe, proximity and contactless

smart card credentials. Additionally, the new iCLASS SE and multiCLASS SE Magnetic Stripe readers are upgradable to support HID Mobile Access®.

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 Global's Secure Identity Object™ (SIO™) technology.
- EAL5+ Certified Secure Element Hardware – Provides tamper-proof protection of keys/cryptographic operations.
- Fully supports the industry's most secure contactless smartcard technologies including iCLASS Seos.
- Secured communications using OSDP with Secure Channel Protocol.

**HIGHLY ADAPTABLE:**

- Supports HID Mobile Access® powered by Seos®
- Upgradeable Hardware Connection – Allows all Wiegand-based communication readers to expand communication capabilities to OSDP and other bidirectional protocols.
- Field Programmable Readers – Provides secure upgrades for migration and extended lifecycle.

**SUSTAINABILITY AND MANAGEMENT:**

- Customization and management from a central location – Enables organization to make changes and manage all attached OSDP readers over RS485 wiring.
- Support for magnetic stripe and 125kHz HID Prox, AWID and EM4102.
- Flexible to support future technologies.
- 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, Wiegand, or Clock-and-Data.
- Custom programming support to read custom data models on MIFARE® Classic and MIFARE DESFire EV1® credentials.



## SPECIFICATIONS

	RM40	RMK40	RMP40	RMPK40
<b>Base Part Number</b>	922N	925N	922P	925P
<b>Typical Read Range*</b>	<b>13.56MHz Single Technology ID-1 Cards – SIO Data Model</b>			
	iCLASS Seos: 2.0" (5 cm) iCLASS: 4.7" (12 cm) MIFARE Classic: 4.7" (12 cm) MIFARE DESFire EV1: 2.0" (5 cm)	iCLASS Seos: 1.6" (4 cm) iCLASS: 4.7" (12 cm) MIFARE Classic: 4.3" (11 cm) MIFARE DESFire EV1: 1.6" (4 cm)	iCLASS Seos: 2.0" (5 cm) iCLASS: 4.7" (12 cm) MIFARE Classic: 4.7" (12 cm) MIFARE DESFire EV1: 2.0" (5 cm)	iCLASS Seos: 1.6" (4 cm) iCLASS: 4.7" (12 cm) MIFARE Classic: 4.3" (11 cm) MIFARE DESFire EV1: 1.6" (4 cm)
	<b>13.56 MHz Single Technology Tags/Fobs – SIO Data Model</b>			
	iCLASS: 2.4" (6 cm) MIFARE Classic: 2.0" (5 cm)	iCLASS: 2.8" (7 cm) MIFARE Classic: 1.6" (4 cm)	iCLASS: 2.4" (6 cm) MIFARE Classic: 2.0" (5 cm)	iCLASS: 2.8" (7 cm) MIFARE Classic: 1.6" (4 cm)
	<b>125kHz Single Technology ID-1 Cards</b>			
	Not Applicable		HID Prox: 2.8" (7 cm) EM4102 Prox: 4.3" (11 cm)	HID Prox: 2.8" (7 cm) EM4102 Prox: 3.1" (8 cm)
<b>125kHz Single Technology Tags/Fobs</b>				
Not Applicable		HID Prox / AWID: 2.0" (5 cm) EM4102 Prox: 2.8" (7 cm)		HID Prox: 1.6" (4 cm) EM4102 Prox: 2.4" (6 cm)
<b>Mounting</b>	Designed to mount and cover single or double gang switch boxes primarily used in the Americas. Includes a slotted mounting plate for European and Asian back box spacing.			
<b>Color</b>	Black			
<b>Keypad</b>	No	Yes (4x3)	No	Yes (4x3)
<b>Dimensions</b>	4.5" x 4.6" x 1.2" 11.4 cm x 11.8 cm x 3.0 cm			
<b>Product Weight (Pigtail)</b>	12.3 oz (348 g)	12.0 oz (341 g)	12.3 oz (348 g)	12.0 oz (341 g)
<b>Product Weight (Terminal Strip)</b>	12.1 oz (343 g)	11.8 oz (336 g)	12.1 oz (343 g)	11.8 oz (336 g)
<b>Operating Voltage Range</b>	5.5-16 VDC 12VDC for RS-485 configurations			
<b>Normal Standby Current Draw</b>	130 mA			
<b>Peak Current Draw**</b>	220 mA			
<b>Power Consumption (W @ 16VDC)</b>	2.1 W			
<b>Operating Temperature</b>	-30° to 150° F (-35° to 65° C)			
<b>Storage Temperature</b>	-67° to 185° F (-55° to 85° C)			
<b>Operating Humidity</b>	5% to 95% relative humidity non-condensing			
<b>Environmental Rating</b>	UL 294 Outdoor Rated			
<b>Transmit Frequency</b>	13.56 MHz & 125 kHz			
<b>13.56 MHz Card Compatibility</b>	Secure Identity Object™ (SIO*) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default) - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - MIFARE Classic and MIFARE DESFire EV1 custom data models			
<b>125 kHz Card Compatibility</b>	Not Applicable		HID Prox, AWID, EM4102	
<b>Magnetic Stripe Card Compatibility</b>	Track 1, Track 2, or Track 3			
<b>Communications</b>	Optional OSDP with SCP over RS485 Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG) - Use Shielded cable for best results			
<b>Panel Connection</b>	Pigtail or Terminal Strip			
<b>Certifications</b>	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand)			
<b>Crypto Processor Hardware Common Criteria Rating</b>	EAL5+			
<b>Patents</b>	www.hidglobal.com/patents			
<b>Housing Material</b>	UL94 Polycarbonate			
<b>UL Ref Number</b>	RMP40EKxR	RMPK40EKxR	RMP40EKxR	RMPK40EKxR
<b>Warranty</b>	Limited Lifetime			

\* 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.

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