



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:

- 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.

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.



SPECIFICATIONS

	RM40	RMK40	RMP40	RMPK40
Base Part Number	922N	925N	922P	925P
Typical Read Range*	13.56MHz Single Technology ID-1 Cards – SIO Data Model			
	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)
	13.56 MHz Single Technology Tags/Fobs – SIO Data Model			
	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)
	125kHz Single Technology ID-1 Cards			
	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)
125kHz Single Technology Tags/Fobs				
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)
Mounting	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.			
Color	Black			
Keypad	No	Yes (4x3)	No	Yes (4x3)
Dimensions	4.5" x 4.6" x 1.2" 11.4 cm x 11.8 cm x 3.0 cm			
Product Weight (Pigtail)	12.3 oz (348 g)	12.0 oz (341 g)	12.3 oz (348 g)	12.0 oz (341 g)
Product Weight (Terminal Strip)	12.1 oz (343 g)	11.8 oz (336 g)	12.1 oz (343 g)	11.8 oz (336 g)
Operating Voltage Range	5.5-16 VDC 12VDC for RS-485 configurations			
Normal Standby Current Draw	130 mA			
Peak Current Draw**	220 mA			
Power Consumption (W @ 16VDC)	2.1 W			
Operating Temperature	-30° 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	UL 294 Outdoor Rated			
Transmit Frequency	13.56 MHz & 125 kHz			
13.56 MHz Card Compatibility	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			
125 kHz Card Compatibility	Not Applicable		HID Prox, AWID, EM4102	
Magnetic Stripe Card Compatibility	Track 1, Track 2, or Track 3			
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), RCM (Australia, New Zealand)			
Crypto Processor Hardware Common Criteria Rating	EAL5+			
Patents	www.hidglobal.com/patents			
Housing Material	UL94 Polycarbonate			
UL Ref Number	RMP40EKxR	RMPK40EKxR	RMP40EKxR	RMPK40EKxR
Warranty	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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