PHYSICAL ACCESS SOLUTIONS

iCLASS SE® & multiCLASS SE®
Magnetic Stripe Readers

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.

POWERSFULLY 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.
- 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.

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.
## SPECIFICATIONS

### Base Part Number

<table>
<thead>
<tr>
<th></th>
<th>RM40</th>
<th>RMK40</th>
<th>RMP40</th>
<th>RMPK40</th>
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<tbody>
<tr>
<td>922N</td>
<td>925N</td>
<td>922P</td>
<td>925P</td>
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</table>

### Typical Read Range

<table>
<thead>
<tr>
<th>Technology</th>
<th>iCLASS: 2.0” (5 cm)</th>
<th>iCLASS: 4.7” (12 cm)</th>
<th>MIFARE Classic: 4.7” (12 cm)</th>
<th>MIFARE DESFire EV1: 2.0” (5 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.56 MHz Single Technology ID-1 Cards – SIO Data Model</td>
<td>2.0” (5 cm)</td>
<td>4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
<td>2.0” (5 cm)</td>
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<tr>
<td>iCLASS Seos: 2.0” (5 cm)</td>
<td>4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
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</tr>
<tr>
<td>iCLASS: 4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
<td>2.0” (5 cm)</td>
<td></td>
</tr>
<tr>
<td>MIFARE Classic: 4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
<td>2.0” (5 cm)</td>
<td></td>
</tr>
<tr>
<td>MIFARE DESFire EV1: 2.0” (5 cm)</td>
<td>4.7” (12 cm)</td>
<td>4.7” (12 cm)</td>
<td>2.0” (5 cm)</td>
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</tr>
</tbody>
</table>

### 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)

### Dimensions

- 4.5” x 4.6” x 1.2”
- 11.4 cm x 11.8 cm x 3.0 cm

### Product Weight

<table>
<thead>
<tr>
<th>Technology</th>
<th>(Pigtail)</th>
<th>(Terminal Strip)</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 kHz Single Technology ID-1 Cards</td>
<td>12.3 oz (348 g)</td>
<td>12.0 oz (341 g)</td>
</tr>
<tr>
<td>13.56 MHz Single Technology ID-1 Cards</td>
<td>12.0 oz (341 g)</td>
<td>12.0 oz (341 g)</td>
</tr>
<tr>
<td>125 kHz Single Technology Tags/Fobs</td>
<td>11.8 oz (336 g)</td>
<td>11.8 oz (336 g)</td>
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</table>

### 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

### 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)

### Cryto 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

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* 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.