multiCLASS 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.
- **Streamlined Migration** – Support for 125 kHz HID Prox*, Indala®, AWID and EM4102 for seamless migration; field programmable for secure upgrades and extended lifecycle.

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.

multiCLASS SE® readers simplify migration from legacy technologies with support 125 kHz for HID Prox, Indala, AWID and EM4102, and 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 with custom data models and other leading technologies.

Additionally, multiCLASS 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.

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 multiCLASS 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.
- SIO Data Binding – Inhibits data cloning by binding an object to a specific credential.
- Secure communications using OSDP with Secure Channel Protocol.

**HIGHLY ADAPTABLE:**
- Mobile device support using iCLASS Seos – Enables HID access control.
- SIO Portability – Provides technology independence and portability to other smart card technologies.
- Upgradable 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 125kHz HID Prox, Indala, AWID and EM4102.
- Flexible to support future technologies.

**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 custom data models on MIFARE and MIFARE DESFire EV1 credentials.

multiCLASS 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.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Base Part Number</th>
<th>RP10</th>
<th>RP15</th>
<th>RP50</th>
<th>RP40</th>
<th>RP40L</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing Material</strong></td>
<td>UL94 Polycarbonate</td>
<td>UL94 Polycarbonate</td>
<td>UL94 Polycarbonate</td>
<td>UL94 Polycarbonate</td>
<td>UL94 Polycarbonate</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td>3.3&quot; x 4.8&quot; x 1.1&quot;</td>
<td>3.3&quot; x 4.8&quot; x 1.1&quot;</td>
<td>3.3&quot; x 4.8&quot; x 1.1&quot;</td>
<td>3.3&quot; x 4.8&quot; x 1.1&quot;</td>
<td>3.3&quot; x 4.8&quot; x 1.1&quot;</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>5% to 95% relative humidity non-condensing</td>
<td>5% to 95% relative humidity non-condensing</td>
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<td>5% to 95% relative humidity non-condensing</td>
<td>5% to 95% relative humidity non-condensing</td>
</tr>
<tr>
<td><strong>Environmental Rating</strong></td>
<td>Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT)</td>
<td>Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT)</td>
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<td>Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT)</td>
<td>Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT)</td>
</tr>
<tr>
<td><strong>Transmit Frequency</strong></td>
<td>13.56 MHz &amp; 125 kHz</td>
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<td>13.56 MHz &amp; 125 kHz</td>
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</tr>
<tr>
<td><strong>13.56 MHz Card Compatibility</strong></td>
<td>Secure Identity Object™ (SIO®) on iCLASS Seos, iCLASS SE/5R, MIFARE DESFire EY</td>
<td>Standard iCLASS Access Control Application (order with Standard interpreter)</td>
<td>- ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN</td>
<td>- FIPS-201 Credentials including PIV, PIV-I, CIV, CAC, TWIC, FRAC; Contactless Interface</td>
<td>- ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN</td>
</tr>
<tr>
<td><strong>125 kHz Card Compatibility</strong></td>
<td>UL294/UL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRCR (China), MiT (Korea)<em><strong>, NCC (Taiwan)</strong></em>, OA (Singapore)***, ROHS , FIPS-201 Transparent PASC-N Reader</td>
<td>UL294/UL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRCR (China), MiT (Korea)<em><strong>, NCC (Taiwan)</strong></em>, OA (Singapore)***, ROHS , FIPS-201 Transparent PASC-N Reader</td>
<td>UL294/UL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRCR (China), MiT (Korea)<em><strong>, NCC (Taiwan)</strong></em>, OA (Singapore)***, ROHS , FIPS-201 Transparent PASC-N Reader</td>
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<tr>
<td><strong>Cryo Processor Hardware Common Criteria Rating</strong></td>
<td>EAL5+</td>
<td>EAL5+</td>
<td>EAL5+</td>
<td>EAL5+</td>
<td>EAL5+</td>
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<tr>
<td><strong>Manufactured with % of recycled content (Terminal Strip)</strong></td>
<td>10.5%</td>
<td>10.5%</td>
<td>10.5%</td>
<td>10.5%</td>
<td>10.5%</td>
</tr>
<tr>
<td><strong>Manufactured with % of recycled content (Pigtail)</strong></td>
<td>10.5%</td>
<td>10.5%</td>
<td>10.5%</td>
<td>10.5%</td>
<td>10.5%</td>
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<tr>
<td><strong>UL Ref Number</strong></td>
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<td>RP15E</td>
<td>RP50E</td>
<td>RP40E</td>
<td>RP40L</td>
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<tr>
<td><strong>Warranty</strong></td>
<td>Limited Lifetime</td>
<td>Limited Lifetime</td>
<td>Limited Lifetime</td>
<td>Limited Lifetime</td>
<td>Limited Lifetime</td>
</tr>
</tbody>
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**Notes:**
- Values shown are for 9xxP base part numbers. See Installation Guide for Current Draw values for 9xxL base part numbers.
- Measured in accordance with UL294 standards; See Installation Guide for Details.
- NSC = Normal Standby Current; See Installation Guide for Details.
- Use spacers to space product off metal and improve read range if required.
- Typical read range achieved in air. Different types of metal will cause some degradation (typically up to 20%).
- Secure Identity Object™ (SIO®) on iCLASS Seos, iCLASS SE/5R, MIFARE DESFire EY1, and MIFARE Classic (On by Default)
- Standard iCLASS Access Control Application (order with Standard interpreter)
- FIPS-201 Credentials including PIV, PIV-I, CIV, CAC, TWIC, FRAC; Contactless Interface
- iCLASS® SE/SR, MIFARE® Classic and MIFARE® DESFire® EV1 (On by Default)
- ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN
- iCLASS® SE/SR (Evolutionary Pivoting Panel), iCLASS® SR, MIFARE® Classic and MIFARE® DESFire® EV1 (On by Default)
- Secure Identity Object™ (SIO®) on iCLASS Seos, iCLASS SE/5R, MIFARE DESFire EY1, and MIFARE Classic (On by Default)
- Standard iCLASS Access Control Application (order with Standard interpreter)
- - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN
- - FIPS-201 Credentials including PIV, PIV-I, CIV, CAC, TWIC, FRAC; Contactless Interface