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 and form factors including mobile devices utilizing Seos™.
- **Interoperable** – Open Supervised Device Protocol (OSDP) for secure, bidirectional communication.
- **Streamlined Migration** – Simultaneous support for 125 kHz HID Prox®, 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.

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.

**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 card emulation – 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, Hi-O 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.
- Simultaneous support for 125kHz HID Prox, AWID and EM4102.
- Allows for support of 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.

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### SPECIFICATIONS

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<tr>
<th>Base Part Number</th>
<th>RP10</th>
<th>RP15</th>
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#### Functional Specifications

- **Environmental Rating:**
  - Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT).
  - Secure Identity Object (SIO) on iCLASS Sesos, iCLASS SE/SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default).
- **Current Draw - Standard Power Mode (mA):**
  - RFID: 75
  - Wiegand/Clock-and-Data Interface: 75
  - 5-16 VDC, Linear supply recommended.
- **Current Draw - Intelligent Power Management (IPM) Mode (mA):**
  - RFID: 40
  - Wiegand/Clock-and-Data Interface: 50
- **Power Consumption - Standard Power Mode (W @ 16VDC):**
  - RFID: 1.2
  - Wiegand/Clock-and-Data Interface: 1.4
- **Power Consumption - w/ IPM (W @ 16VDC):**
  - RFID: 0.6
  - Wiegand/Clock-and-Data Interface: 0.8
- **Operating Temperature:**
  - -35°F to 150°F (-35°C to 65°C)
- **Storage Temperature:**
  - -67°F to 185°F (-55°C to 85°C)
- **Operating Humidity:**
  - 5% to 95% relative humidity non-condensing
- **Warranty:**
  - Limited Lifetime
- **Certifications:**
  - UL294 (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), IDA (Singapore), RoHS

#### Mechanical Specifications

- **Dimensions:**
  - 1.9" x 4.1" x 0.9" (4.8 cm x 10.3 cm x 2.3 cm)
- **Product Weight:**
  - Pigtails (mg): 4.0oz (114g)
  - Terminal Strips (mg): 1.9" x 4.1" x 0.9" (4.8 cm x 10.3 cm x 2.3 cm)
- **Mounting:**
  - Ideally suited for mullion-mounted door installations or any flat surface.
- **Color:**
  - Black
- **Keypad:**
  - Yes (4x3)
- **Panel Connection:**
  - Wiegand/Clock-and-Data Interface 500 ft (150 m) (22AWG) - Use shielded cable for best results.
- **Housing Material:**
  - UL94 Polycarbonate
- **Manufactured with % of recycled content (Pigtails):**
  - 10.5%
- **Manufactured with % of recycled content (Terminal Strips):**
  - 10.5%
- **UL Ref Number:**
  - RP10E
  - RP15E
  - RP40E
  - RPK40E

### Additional Information

- **Read range listed is statistical mean rounded to nearest whole centimeter. HID Global testing occurs in open air. Some environmental conditions, including metallic or wooden surfaces, can significantly degrade read range and performance. Plastics or ferrous spacers are recommended to improve performance on metallic mounting surfaces.**
- **Measurements in accordance with UL294 standards; see Installation Guide for details.**
- **NSC = Normal Standby Current; see Installation Guide for details.**
- **Not available on 9xxL part numbers.**
- **13.56 MHz Single Technology Tags/Fobs**
  - iCLASS: 1.6" (4 cm)
  - MIFARE Classic: 1.2" (3 cm)
  - MIFARE DESFire EV1/EV2: 1.2" (3 cm)
- **125 kHz Single Technology Tags/Fobs**
  - MIFARE Classic: 2.8" (7 cm)
  - MIFARE Classic: 1.2" (3 cm)
  - MIFARE DESFire EV1/EV2: 2.0" (5 cm)
  - iCLASS: 2.8" (7 cm)
  - MIFARE Classic: 1.6" (4 cm)
- **HID Prox:**
  - 2.8" (7 cm)
  - 2.0" (5 cm)
  - 1.6" (4 cm)
- **Indala Prox:**
  - 1.6" (4 cm)
  - 0.8" (2 cm)
- **EM4102 Prox:**
  - 2.8" (7 cm)
  - 2.0" (5 cm)
  - 1.6" (4 cm)
- **HID Prox:**
  - 2.8" (7 cm)
  - 2.0" (5 cm)
  - 1.6" (4 cm)
- **Typical Read Range:**
  - 13.56 MHz Card Compatibility
  - MIFARE DESFire EV1/EV2: 2.0"
  - MIFARE Classic: 2.0"
  - EM4102 Prox: 2.0"
- **Certification:**
  - SRRC (China), MIC (Korea)
- **Communications:**
  - RFID: 75
  - Wiegand/Clock-and-Data Interface: 75
- **Panel Connection:**
  - RFID: 40
  - Wiegand/Clock-and-Data Interface: 50
- **Typical Read Range:**
  - iCLASS: 3.1" (8 cm)
  - MIFARE Classic: 2.8" (7 cm)
  - MIFARE DESFire EV1/EV2: 1.2" (3 cm)
- **Mounting spacer:**
  - To be used when mounting on metallic surfaces. Refer to How To Order Guide for part numbers.