multiCLASS® Magnetic Stripe Readers

13.56 MHZ CONTACTLESS AND 125 KHZ PROXIMITY CARD READERS

- **Simple Migration** – From legacy magstripe and proximity technologies to 13.56 MHz smart card technology
- **Increased On-site Security** – Replace magstripe backplate with standard backplate for contactless 13.56 MHz-only compatibility after site migration
- **Dual Factor Authentication** – Combine contactless card presentation with a PIN
- **GSA-approved** – Included on the U.S. General Services Administration (GSA) FIPS 201 Approved Products List (APL)

multiCLASS® Magnetic Stripe readers are designed for customers upgrading their current access control card system from the popular magnetic stripe (“magstripe”) technology to the enhanced security of 13.56 MHz smart card technology. Supporting access control technology combinations including magnetic stripe, keypad, HID Prox and 13.56 MHz smart card technology (including iCLASS®), the multiCLASS Magnetic Stripe reader line represents the ultimate in flexibility, enabling a cost effective, time-feasible and truly seamless migration solution with no operational disruption.

Migration products without reader and credential components can require large initial capital investments; the multiCLASS Magnetic Stripe reader line features an affordable, standards-based migration path to secure credential technology. By implementing a solution based on multiCLASS Magnetic Stripe readers and HID multi-technology credentials, organizations can integrate the migration into their existing badging programs, supporting a low investment level spread over time for migration to a secure technology across multiple facilities.

Organizations switching to the multiCLASS reader’s enhanced security can also increase convenience and draw more return on credential investment by adding applications enabled by a single card.

The removable vertical magnetic stripe reader and contactless 125 kHz support make user interaction with the reader familiar, maintaining operational access throughout the facility and reducing user confusion during migration.

Designed for flexibility, the vertical magstripe backplate can be mounted on the left or right side of the core contactless wallswitch reader frame. After a site fully migrates off magstripe cards, users can replace the magstripe backplate with a standard backplate for increased security from contactless 13.56 MHz-only compatibility.

The multiCLASS family of products provides true iCLASS security, the ease of proximity technology, the power of smart cards and the confidence of choosing Genuine HID.
# SPECIFICATIONS

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<th>RMK40 multiCLASS Magnetic Stripe Reader</th>
<th>RMPK40 multiCLASS Magnetic Stripe Reader with Prox and Keypad</th>
<th>RM40 multiCLASS Magnetic Stripe Reader</th>
<th>RMP40 multiCLASS Magnetic Stripe Reader with Prox</th>
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<td>6230C (Wiegand)</td>
<td>6220C (Wiegand)</td>
<td>6225C (Wiegand)</td>
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<tr>
<td>6238C (Clock-and-Data)</td>
<td>6223C (Clock-and-Data)</td>
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**Read Range**

- **IClass Card:** Up to 4.0” (10.2 cm)
- **IClass Key/Tag:** Up to 1.25” (3.2 cm)
- **MIFARE/DESFire Card (CSN):** Up to 2” (5.1 cm)

**Mounting**

Two-piece plastic cover/electronics and mounting plate. Mounting plate with built in vertical swipe magnetic reader. Magnetic swipe can be mounted on left or right of reader. Mounting plate attaches to U.S. back box, 52-60 mm screw hole spacing (vertical or horizontal), or to any flat surface. Reader cover/electronics secured to mounting plate with security screw. Increase security by replacing mounting plate with a standard mounting plate after magnetic card migration has complete.

**Color**

- Black

**Dimensions**

- 4.81” x 4.47” x 1.15” (12.2 cm x 11.4 cm x 2.9 cm)
- 4.81” x 4.47” x 1.05” (12.2 cm x 11.4 cm x 2.7 cm)

**Weight**

- 9.7 oz (275 g)
- 8.8 oz (250 g)

**Power Supply**

- 5-16 VDC, Linear supply recommended

**Power Requirements**

- AVG = 110 mA, PEAK = 169 mA @ 12 VDC
- AVG = 90 mA, PEAK = 166 mA @ 12 VDC

**Operating Temperature**

- -31º to 150º F (-35º to 65º C)

**Operating Humidity**

- 5% to 95% relative humidity non-condensing

**Transmit Frequency**

- 13.56 MHz
- 13.56 MHz and 125 kHz
- 13.56 MHz and 125 kHz

**13.56 MHz Card Compatibility**

- iCLASS 15693, Reads Secure HID Access Control Application, All memory sizes
- ISO 14443A/14443B US Government FIPS-201 (PIV)
- ISO 14443A (MIFARE® and DESFire®) - serial number, ISO 15693 - serial number, ISO 14443B - serial number

**125 kHz Card Compatibility**

- N/A
- HID Prox and AVID Credentials
- N/A
- HID Prox and AVID Credentials

**Magnetic Card Data**

- Tracks: 1 or 2

**Magnetic Card Speed**

- 8 to 50 inches per second

**Magnetic Card Data Output**

- All bits Wiegand or Clock-and-Data; Various ABA to Wiegand formats; Supports most Dorado formats

**Cable Distance**

- Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG)

**Termination**

- Pigtail or Terminal Strip

**Certifications**

- UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), IDA (Singapore), RoHS

**Housing Material**

- UL 94 Polycarbonate

**Keypad**

- Yes (4x3)

**Family Model**

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**Warranty**

- Warranted against defects in materials and workmanship for 2 years

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1 See 13.56 MHz How To Order Guide for more details
2 UL294/cUL certified for Wiegand interface and outdoor use