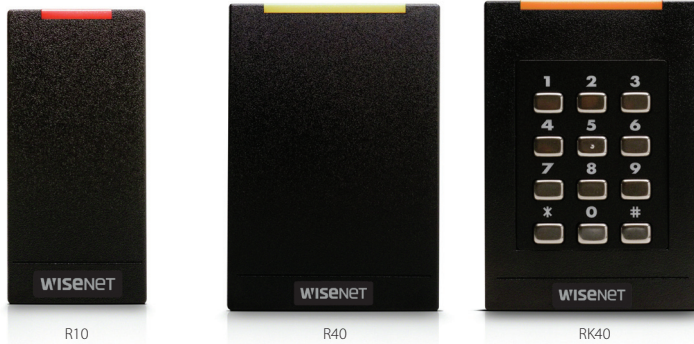


# R10/R40/RK40

Card / Keypad Reader



## Key Features

- 13.56MHz card compatibility
- Wiegand, Clock and data
- Multi-format is available
  - Hanwha Techwin format
  - iCLASS SE
  - DESFire EVI CSN
  - MIFARE CSN
  - Felica CSN
- NFC/ Bluetooth smart feature
- UL294 / FCC / IC / CE / RCM / SRRC / KCC
- NCC / IDA / RoHS / FIPS201/ MIC
- Life time warranty

|  | R10  | R40  | RK40   |
|--|--|--|--|
| Typical Read Range* (Inches)                                   | 13.56MHz single technology ID-1 credentials (Cards) – SIO data model<br>iCLASS® SE™: 2.8" (7.1cm)<br>SE for DESFire® EV1 : 1.6 (4.1cm)<br>SE for MIFARE® classic : 2.6" (6.6cm)  | 13.56MHz single technology tags/fobs – SIO data model<br>iCLASS SE : 3.5" (8.9cm)<br>SE for DESFire EV1 : 1.8" (4.6cm)<br>SE for MIFARE classic : 2.8" (7.1cm)                       | iCLASS SE : 3.4" (8.6cm)<br>SE for DESFire EV1 : 1.6 (4.1cm)<br>SE for MIFARE classic : 2.9" (7.4cm) |
| Mounting   | Mini-mullion size : physically HID's smallest iCLASS® readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface  | Wall switch size : designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing |  |
| Color  | Black  |  |  |
| Keypad   | No   |  | Yes (4 x 3)  |
| Dimensions   | 1.9" x 4.1" x 0.9" (4.8cm x 10.3cm x 2.3cm)  | 3.3" x 4.8" x 1.0" (8.4cm x 12.2cm x 2.4cm)  | 3.3" x 4.8" x 1.1" (8.5cm x 12.2cm x 2.8cm)  |
| Product Weight (Pigtail)                                       | 3.9 oz (113g)  | 7.7 oz (220g)  | 9.0 oz (256g)  |
| Product Weight (Terminal Strip)                                | 2.9 oz (84g)   | 7.5 oz (215g)  | 8.0oz (226g)   |
| Operating Voltage Range  | 5-16V DC, Linear supply recommended  |  |  |
| Current Draw - Standard Power Mode*** (mA)                     | 45   | 65   | 100  |
| Current Draw - Intelligent Power Management (IPM) Mode*** (mA) | 25   | 25   | 65   |
| Peak Current Draw - Standard Power or IPM Mode*** (mA)         | 75   | 105  | 130  |
| NSC** Power Consumption - Standard Power Mode (W@16V DC)       | 0.7  | 1  | 1.6  |
| NSC** Power Consumption - w/ IPM (W@16V DC)                    | 0.4  | 0.4  | 1  |
| Operating Temperature  | -31° 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   | IP55   |  |  |
| Transmit Frequency   | 13.56MHz   |  |  |
| 13.56MHz Card Compatibility                                    | Secure identity object™ (SIO) on iCLASS SE/SR, SE for MIFARE DESFire EV1 and SE for MIFARE classic (On by default)<br>Non-default programmable options include : additionally support - Standard iCLASS access control application (Order with standard interpreter)<br>- ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - ISO14443A/B (FIPS-201 transparent FASC - N read) (Order - F model with FIPS interpreter) |  |  |
| Communications   | 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), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, FIPS-201 transparent FASC-N reader  |  |  |
| Crypto Processor Hardware Common Criteria Rating               | EAL5+  |  |  |
| Patents / Housing Material                                     | US7124943, US6058481, US6337619 / UL94 polycarbonate   |  |  |
| Manufactured with % of Recycled Content (Pigtail)              | 10.5%  | 10.5%  | 10.9%  |
| Manufactured with % of Recycled Content (Terminal Strip)       | 11.0%  | 11.0%  | 12.4%  |
| UL Ref Number  | R10D   | R40D   | RK40D  |
| Warranty   | Limited lifetime   |  |  |

\* Typical read range achieved in air. Different types of metal wall cause some degradation (typically up to 20%). Use spacers to space product off metal and improve read range if required.

\*\* NSC = Normal Standby Current \*\*\* Measured in accordance with UL294 standards \*\*\*\* UL294 functionally certified for Wiegand output only

\* The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)

\* Design and specifications are subject to change without notice.