

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 iCLASS® SE™: 2.8" (7.1cm) SE for DESFire® EV1 : 1.6 (4.1cm) SE for MIFARE® classic : 2.6" (6.6cm)	13.56MHz single technology tags/fobs – SIO data model iCLASS SE : 3.5" (8.9cm) SE for DESFire EV1 : 1.8" (4.6cm) SE for MIFARE classic : 2.8" (7.1cm)	iCLASS SE : 3.4" (8.6cm) SE for DESFire EV1 : 1.6 (4.1cm) 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) Non-default programmable options include : additionally support - Standard iCLASS access control application (Order with standard interpreter) - 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 will 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

* Design and specifications are subject to change without notice.