

## Proximity Card Readers

RKWM / RKWS / RKWL



Radio Key® Proximity Card technology is ideally suited for access control, time and attendance, parking, and many other applications requiring secure and reliable read-only cards.

Radio Key® readers are available in three form factors: the RKWM, an S-shaped mini-mullion; the RKWS, a traditional single-gang box “wall switch” housing; and the RKWL, a large post/wall mount housing for long range applications.

Radio Key® readers use 125 kHz proximity technology, and work with Secura Key encoded cards and key tags. Radio Key® readers use patented Dynascan® automatic tuning to optimize the reader to its RF environment, which provides dramatically better read range than competing products with the same antenna size. For example, the read range of Radio Key’s® mini-mullion compares with most wall switch readers, Radio Key’s® wall switch reader compares with most midrange readers, and the Radio Key® long range reader has up to 50% more read range than similar competing products.

Cards are available with custom 4-color graphics, with a glossy white dye-sublimation-ready finish for Photo ID printing, or in a white molded clamshell form factor. Key tags are molded in rugged black ABS plastic.

Radio Key® readers have an SIA standard Wiegand output and transmit data in virtually any Wiegand format up to 40 bits, so they are compatible with most access control panels including the Secura Key SK-ACP. Industry standard wire colors and functions, plus low current draw and 5VDC operation on wall switch and mini-mullion models allows easy upgrade of existing Wiegand interface readers including Wiegand swipe, TOUCH CARD® (Barium Ferrite) or magstripe technologies. The RKWL Long Range reader only requires 12 VDC, while competing products require an expensive 24VDC linear supply for optimum performance.

Radio Key® models have a wire pigtail for easy field connections. All Radio Key® readers are weatherproof, epoxy-potted units suitable for outdoors. All models are UL294 listed and FCC/CE approved devices.

## Features:

- 125 kHz Proximity Technology
- Dynascan® Auto Tuning Provides Superior Read Range
- SIA Standard Wiegand Output Works with Most Access Control Panels
- Industry Standard Wire Colors and Functions for Easy Upgrade
- External LED and Buzzer Controls
- Low Voltage and Low Current Draw
- Weatherproof Epoxy Potted Units for Outdoor Applications
- UL294, FCC and CE Regulatory Approvals

	RKWM S-Mini Mullion	RKWS Wall Switch	RKWL Long Range
<b>Dimensions (H, W, D)</b>	3.5" x 1.6" x 0.6" 8.89 x 4.06 x 1.52 cm	4.5" x 3.2" x 0.84" 11.43 x 8.12 x 2.13 cm	12" x 12" x 1.2" 30.48 x 30.48 x 3.05 cm
<b>Mounting</b>	Mullion, wall, post	US single-gang box, wall, post	US single/dual-gang box, wall, post, pedestal
<b>Weight</b>	2.88 oz (81.65 gm)	7.71 oz (218.57 gm)	22 oz (0.62 kg)
<b>Material</b>	ABS	Lexan	ABS
<b>Color</b>	Black	Black or Beige	Black
<b>Power requirements</b>	40/90 mA avg/peak @ 5-14VDC		300/350mA avg/peak (regulated) @ 12-14VDC
<b>Bi-Color LED</b>	Red and Green – Ground to Activate		
<b>Buzzer Control</b>	Ground to Activate		
<b>Hold Line</b>	Ground to Activate		
<b>Communications</b>	Wiegand		
<b>Cable Required</b>	Up to 500 ft 5 -10 conductor (depending on options used) 18-22 AWG Shielded		
<b>Environmental</b>	Operating Temperature: -40° to +158° F(-40° to +70° C) Operating Humidity: 0-100% Non-Condensing		
<b>Operating Frequency</b>	125 kHz		
<b>Read Range</b>	Molded Card up to 6"(15 cm), ISO Card/key tag up to 5" (13 cm)	Molded Card up to 8" (20 cm), ISO Card/key tag up to 6" (15 cm)	Molded Card up to 36" (91 cm) ISO Card/key tag up to 26" (66 cm) (Note: 2 or more RK-WL readers must be 8' apart.)
<b>Operating Mode</b>	Read-only, card data		
<b>Compatible Cards</b>	RKCM-02 (Molded clamshell), RKCI-02 (ISO); RKKT-02 (key tag)		
<b>Regulatory Approvals</b>	UL/cUL294, Part 15 Class B FCC, CE Mark		
<b>Warranty (US &amp; Canadian)</b>	These Secura Key products are warranted against defects in materials and workmanship for life. Secura Key will replace any Secura Key manufactured product that fails to perform as intended. This warranty does not include freight, taxes, duties, or installation expenses. See price list for complete terms and conditions.		

## ORDERING

### READERS:

RKWM	Proximity Reader, 125 kHz, S-Mini-Mullion, Wiegand output, <a href="#">black housing</a>
RKWS	Proximity Reader, 125 kHz, Wall Switch, Wiegand output, <a href="#">black or beige housing</a>
RKWL	Proximity Reader, 125 kHz, Long Range, Wiegand output, <a href="#">black housing</a>

### ACCESSORIES:

RK-BB	Back box / Spacer for RK-WS
RK-GM	Glass Mount Kit for RK-WS
SK-DCPWR	12VDC 1.2A Power Supply for RK-WL
SK-XFRMR	15.5VAC, 40 VA Plug-in Transformer for SK-DCPWR – use with RKWL

### CARDS/TAGS:

RKCM-02	Molded Clamshell Cards, Seq. Numbering w/Facility Code
RKCI-02	ISO Cards, Field Printable, Seq. Numbering w/Facility Code
RKCI-02-MS	ISO Cards, Field Printable, Seq. Numbering w/Facility Code (with unencoded mag stripe)
RKKT-02	Key Tags, Black Plastic, Seq. Numbering w/Facility Code
RKCM-IDL	20 mil PVC Field Printable Adhesive Label
RKCM-02-25	Pack of 25 molded cards, 26 bit
RKKT-02-25	Pack of 25 key tags, 26-bit

**Custom Graphics are available for cards**

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**Secura Key**  
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