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

RADIO KEY®
SPECIFICATIONS

Proximity Card Readers

	RKWM S-Mini Mullion	RKWS Wall Switch	RKWL Long Range
Dimensions (H, W, D)	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
Mounting	Mullion, wall, post	US single-gang box, wall, post	US single/dual-gang box, wall, post, pedestal
Weight	2.88 oz (81.65 gm)	7.71 oz (218.57 gm)	22 oz (0.62 kg)
Material	ABS	Lexan	ABS
Color	Black	Black or Beige	Black
Power requirements	40/90 mA avg/peak @ 5-14VDC		300/350mA avg/peak (regulated) @ 12-14VDC
Bi-Color LED	Red and Green – Ground to Activate		
Buzzer Control	Ground to Activate		
Hold Line	Ground to Activate		
Communications	Wiegand		
Cable Required	Up to 500 ft 5 -10 conductor (depending on options used) 18-22 AWG Shielded		
Environmental	Operating Temperature: -40° to +158° F(-40° to +70° C) Operating Humidity: 0-100% Non-Condensing		
Operating Frequency	125 kHz		
Read Range	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.)
Operating Mode	Read-only, card data		
Compatible Cards	RKCM-02 (Molded clamshell), RKCI-02 (ISO); RKKT-02 (key tag)		
Regulatory Approvals	UL/cUL294, Part 15 Class B FCC, CE Mark		
Warranty (US & Canadian)	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, black housing

RKWS — Proximity Reader, 125 kHz, Wall Switch, Wiegand output, black or beige housing

RKWL — Proximity Reader, 125 kHz, Long Range, Wiegand output, black housing

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

SecuraKey
Smart. Reliable. Secure.