

# RADIO KEY® RK-WL

## Long Range Proximity Reader

with Wiegand Output



**RADIO KEY® RK-WL**

Radio Key® RK-WL Proximity Reader has been designed for use where a conventional proximity reader just won't do. This extended-range reader will read Secura Key proximity cards or tags as far as 36 inches away.\* Engineered to integrate into any system requiring a Wiegand output, card data can be transmitted in virtually any format up to 40 bits.

Secura Key's patented Dynascan® technology assures maximum reader performance in any environment.

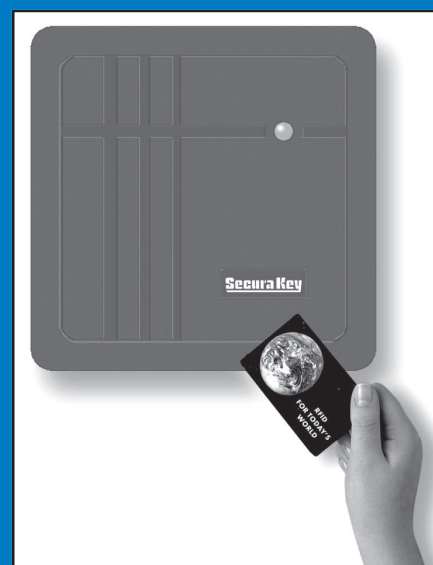
The housing is potted and rated for extreme weather conditions. The unit is vandal-resistant and includes LED and buzzer control.

Installation of the RK-WL is easy. The reader can be mounted to a single-gang or a double-gang electrical box, to a parking pedestal or to virtually any flat surface.

\* Read range varies depending upon location and radio-frequency environment. While 36" range can be achieved under excellent conditions, your results may vary. Generally speaking, outdoor installations will provide more range than interior installations.

- EXTENDED READ RANGE
- WIEGAND FORMATS UP TO 40 BITS
- PATENTED DYNASCAN® TECHNOLOGY\*\*
- EXTREME WEATHER RESISTANCE
- VANDAL RESISTANT
- INEXPENSIVE
- EASY TO INSTALL
- LED AND BUZZER

\*\*U.S.PATENT #6317027

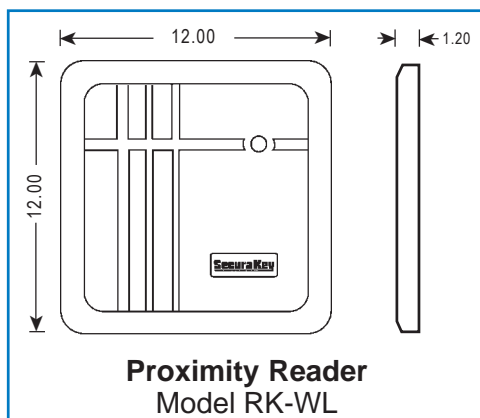


**Secura Key**  
A Division of SOUNDCRAFT Inc.

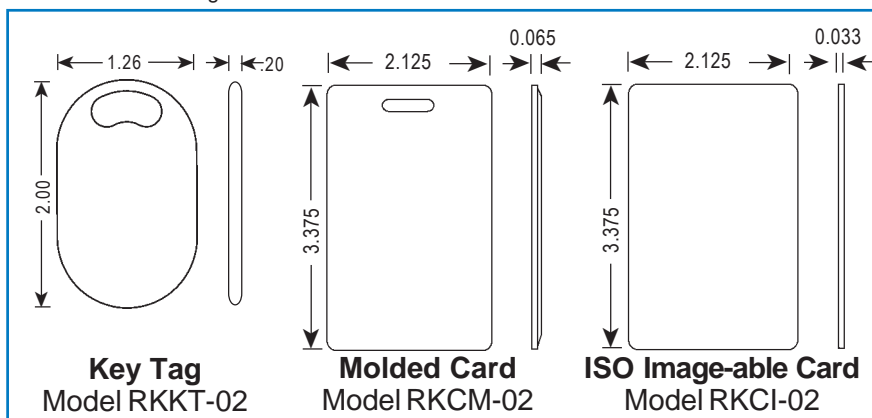
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# RADIO KEY® RK-WL - SPECIFICATIONS

All dimensions in drawings are indicated in inches.



**Proximity Reader**  
Model RK-WL



**Key Tag**  
Model RKKT-02

**Molded Card**  
Model RKCM-02

**ISO Image-able Card**  
Model RKCI-02

## PHYSICAL

	Proximity Reader	Key Tag	Molded Card	ISO Image-able Card
Depth	1.20" (3.05 cm)	0.20" (0.50 cm)	0.065" (0.17 cm)	0.033" (0.08 cm)
Width	12.0" (30.48 cm)	1.26" (3.20 cm)	2.125" (5.40 cm)	2.125" (5.40 cm)
Height	12.0" (30.48 cm)	2.00" (5.00 cm)	3.375" (8.57 cm)	3.375" (8.57 cm)
Weight	22.0 oz. (0.62 kg)	0.25 oz. (7.20 gm)	0.39 oz. (11.16 gm)	0.20 oz. (5.67 gm)
Material	ABS	ABS	ABS	PVC
Color	Black-Std; (Beige-opt.)	Black	White	White

**POWER REQUIREMENTS** 12-14 VDC, 300 mA avg., 350 mA peak. A regulated power supply is required.

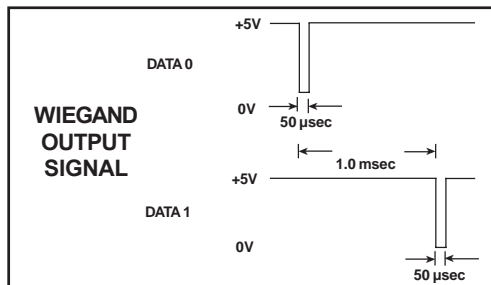
## OUTPUTS & INPUTS

Wiegand Output	Data 1 and Data 0	Output Sink Current: 100mA; Output Source Current: 5mA
LED/Buzzer Control	LED Buzzer	Bicolor (Red or Green) Short chirp upon presentation of any compatible Secura Key transponder, also controlled by input.
Cable Required	Maximum Distance	500 ft. - 5 to 7 conductor 20 gauge shielded cable (depends on LED and Buzzer control used)

### READER CONNECTION

WIRE #	WIRE COLOR	DESCRIPTION
1	RED	12-14 VDC
2	BLACK	GROUND
3	GREEN	DATA-0
4	WHITE	DATA-1
5	BROWN	RED LED INPUT *
6	ORANGE	GREEN LED INPUT *
7	BLUE	BUZZER INPUT *
8	VIOLET	HOLD LINE *
9	GRAY	EARTH GROUND

\*Connect to GROUND to activate



## ENVIRONMENT

Access Control Unit and Card/Key Tag	
Ambient Temperature	-40° to +70°C (-40° to +158°F)
Humidity	0 to 100%
NOTE: Two or more RK-WL readers must be mounted at least eight feet apart.	

## OPERATIONAL

Transmit Frequency	125 kHz
Card/Key Tag Operation	Passive
Reading Distance	Molded Card: Up to 36" (91.44 cm); Key Tag and ISO Card: Up to 26" (66.04 cm)
Maximum read range is achieved under ideal conditions. Many installations will yield shorter read ranges. Earth ground and regulated DC power are required for the best performance.	

This product complies with Part 15 of the Class B FCC Rules.

## WARRANTY (U.S. and Canadian)

"This product is warranted against defects in materials and workmanship for a period of 2 years from the date of purchase. Secura Key shall, at its option, either replace or repair this product, if returned to us freight prepaid within the warranty period. This warranty does not include freight, taxes, duties, or installation expenses. THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED. SECURA KEY SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The remedies provided herein are the buyers' sole and exclusive remedies. In no event shall Secura Key be liable for direct, indirect, special, incidental or consequential damages (including loss of profits), whether based on contract, tort or any other legal theory." Contact Secura Key for Card/Tag and Export Warranty Policies.

## DISTRIBUTED BY:



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