ITR Systems

RADIO KEY® RK-WS
Wiegand Output Proximity Reader
with DYNASCAN® TECHNOLOGY

RADIO KEY® RK-WS

- **UP TO 8" READ DISTANCE**
- **WIEGAND FORMATS UP TO 40 BITS**
- **PATENTED DYNASCAN®* TECHNOLOGY**
- **EXTREME WEATHER RESISTANCE**
- **VANDAL RESISTANT**
- **INEXPENSIVE**
- **EASY TO INSTALL**
- **LED AND BUZZER**

Radio Key® RK-WS Proximity Reader is designed to integrate into any system requiring a Wiegand output. The reader will read Secura Key proximity cards or key tags and transmit the data in virtually any Wiegand Format up to 40 bits.

Secura Key's patented DYNASCAN®* technology assures maximum performance in any environment.

This completely potted unit is rated for extreme weather use and is vandal resistant. Includes LED and buzzer control.

Installation of the Radio Key® RK-WS is easy. Two screws mount the unit easily to a single-gang electrical box, masonry wall, post, or almost any surface.
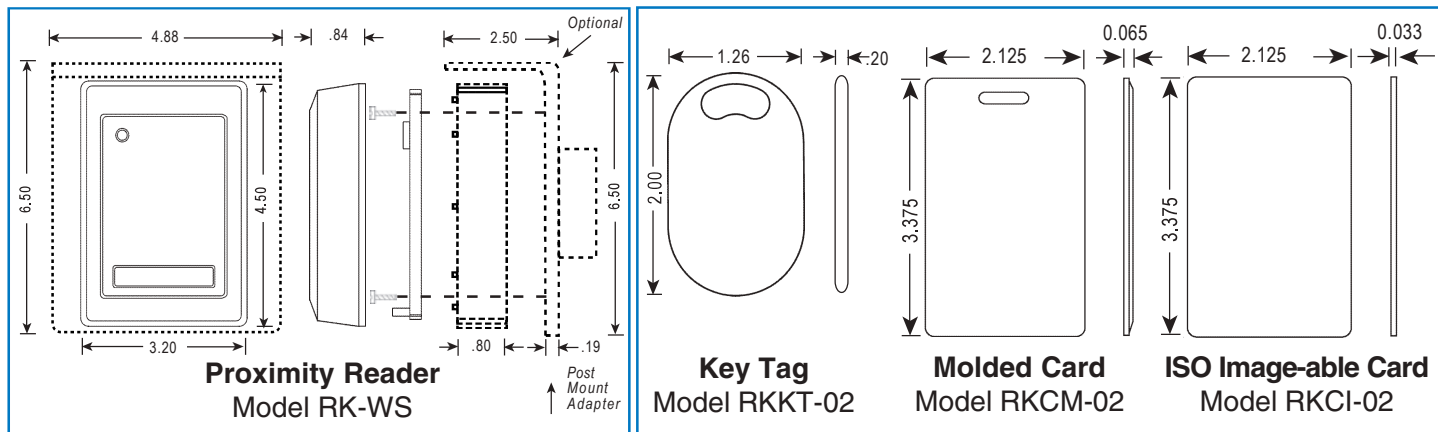
*U.S. PATENT 6317027

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RADIO KEY® RK-WS - SPECIFICATIONS

All dimensions in drawings are indicated in inches.

Proximity Reader
Model RK-WS

Optional
Post Mount Adapter

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	0.84" (2.13 cm)	0.20" (0.50 cm)	0.065" (0.17 cm)	0.033" (0.08 cm)
Width	3.20" (8.12 cm)	1.26" (3.20 cm)	2.125" (5.40 cm)	2.125" (5.40 cm)
Height	4.50" (11.43 cm)	2.00" (5.00 cm)	3.375" (8.57 cm)	3.375" (8.57 cm)
Weight	2.8 oz. (80.40 gm)	0.25 oz. (7.20 gm)	0.39 oz. (11.16 gm)	0.20 oz (5.67 gm)
Material	Lexan®	ABS	ABS	PVC
Color	Beige	Black	White	White

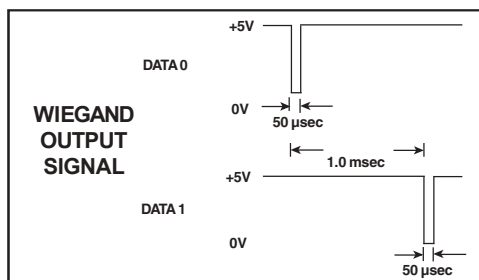## POWER REQUIREMENTS

5-14 VDC, 90 mA maximum

OUTPUTS & INPUTS

Wiegand Output	Data 1 and Data 0	Output Sink Current: 100mA; Output Source Current: 5mA
LED/Buzzer Control	LED	Bicolor (Red or Green)
	Buzzer	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	5-14 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*
Connect to GROUND to activate.		

WIEGAND OUTPUT SIGNAL

ENVIRONMENT

Access Control Unit and Card/Key Tag

Ambient Temperature	-40° to +70°C (-40° to +158°F)
Humidity	0 to 100%

OPERATIONAL

Reading Distance	Molded Card: Up to 8" (20.32 cm); Key Tag and ISO Card: Up to 6" (15.24 cm)
Card/Key Tag Operation	Passive
Transmit Frequency	125 kHz

This product complies with UL 294 Standards, with Part 15, Class B FCC Rules and meets R&TTE Requirements (European Standards). CE 168 ①

WARRANTY

"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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