

PRELIMINARY

Final

# RADIO KEY® RK-WM

with DYNASCAN™ TECHNOLOGY



Radio Key® RK-WM Proximity Reader is designed to integrate into any system requiring an input in the Wiegand format. The reader will read any Secura Key proximity card or key tag and transmit the data in the Wiegand Format designated by the card or key tag.

Secura Key's exclusive DYNASCAN™ technology\* assures maximum performance in any environment.

This completely potted unit is rated for extreme weather use and is vandal resistant.

Installation of the Radio Key® RK-WM is easy. Two screws mount the unit to a mullion, masonry wall, post, or almost any surface.

\*Patent Pending

- INEXPENSIVE
- EASY TO INSTALL
- ALL WIEGAND OUTPUTS
- EXTREME WEATHER RESISTANCE
- VANDAL RESISTANT
- DYNASCAN™ TECHNOLOGY\*



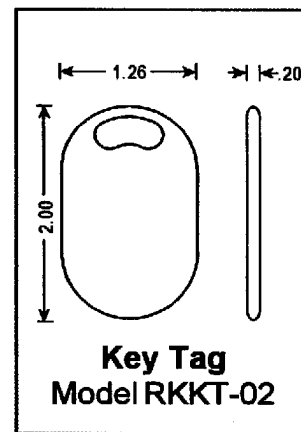
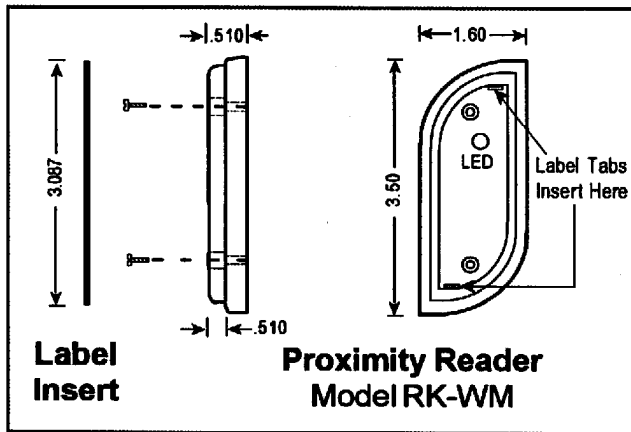
**Secura Key**  
A Division of SOUNDGRAFT Inc.

Specifications subject to change without notice

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# RADIO KEY® RK-WM - SPECIFICATIONS

All dimensions in drawings are indicated in inches.



## PHYSICAL

	Proximity Reader	Key Tag
Depth	0.50" (1.27 cm)	0.20" (0.50 cm)
Width	1.60" (4.06 cm)	1.26" (3.20 cm)
Height	3.50" (8.89 cm)	2.00" (5.00 cm)
Weight	2.88 oz. (81.65 gm)	0.25 oz. (7.20 gm)
Material	ABS	ABS
Color	Black	Black

## POWER REQUIREMENTS

9-14 VDC, 90 mA maximum

## INPUTS & OUTPUTS

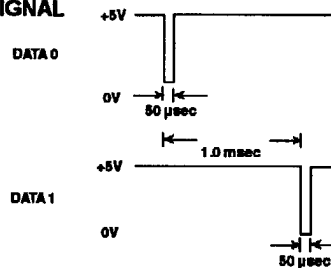
Output Sink Current	15mA
Output Source Current	5mA
LED	Bicolor (Red or Green)
Maximum Distance	500 ft. (5 conductor 20 gauge shielded cable)

## READER CONNECTION

WIRE#	WIRE COLOR	DESCRIPTION
1	RED	9-14VDC
2	BLACK	GROUND
3	GREEN	DATA-0
4	WHITE	DATA-1
5	BROWN	RED LED INPUT*
6	BLUE	GREEN LED INPUT*

\*Connect to GROUND to obtain either LED color.

## SIGNAL



## ENVIRONMENT

### Access Control Unit and Key Tag

Ambient Temperature	-40° to +70°C (-40° to +158°F)
Humidity	0 to 95% (non-condensing)

## OPERATIONAL

Reading Distance	Up to 5" (12.70 cm)
Key Tag Operation	Passive
Transmit Frequency	125 kHz

This product complies with UL 294 Standards, CE (European Standards), and with Part 15 of the Class B FCC Rules.

## WARRANTY

These products are warranted against defects in materials and workmanship for one (1) year from date of shipment. Secura Key shall, at its option, either repair or replace products which prove to be defective and are returned to Secura Key with freight prepaid, within the warranty period. The foregoing warranty shall not apply to defects resulting from abuse, misuse, accident, alteration, neglect, or unauthorized repair or installation. Secura Key shall have the right of final determination as to the existence and cause of the defect. 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 Buyer's 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 legal theory.

## DISTRIBUTED BY:

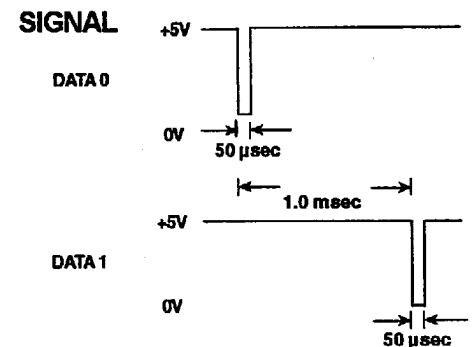
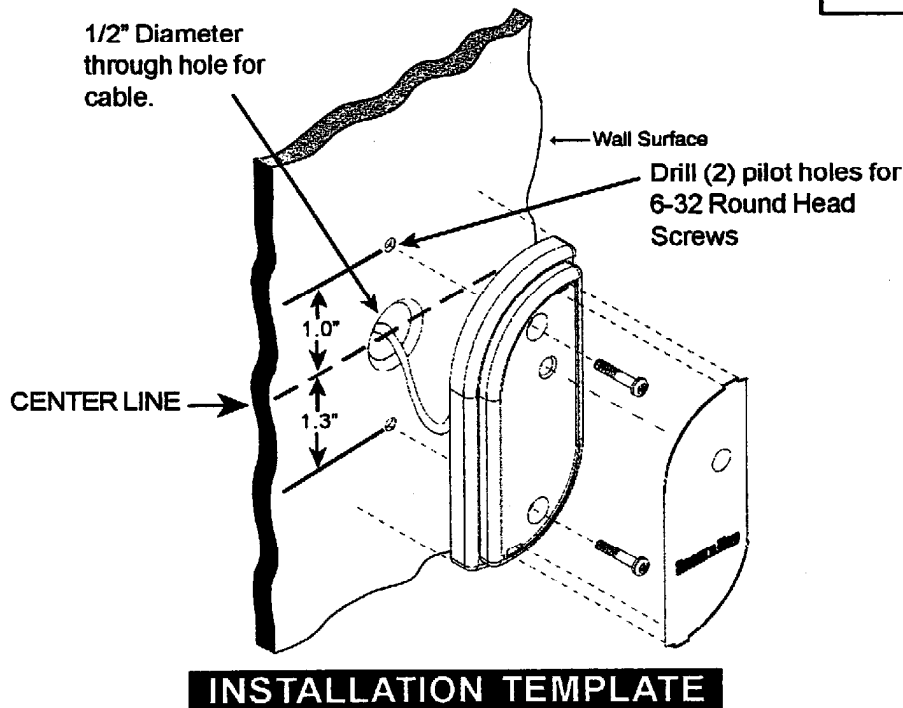
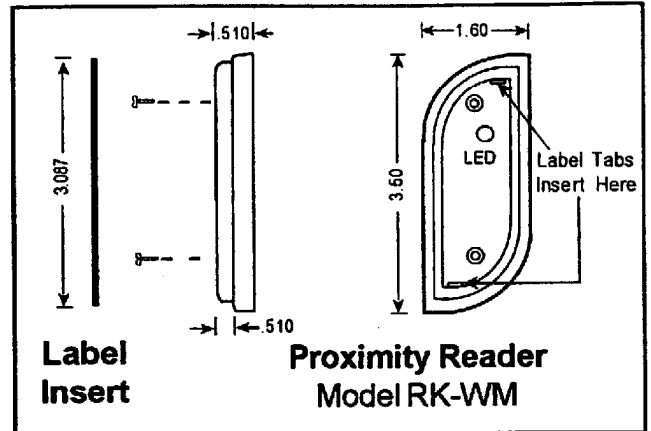
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# RADIO KEY® RK-WM Installation Instructions

## INSTALLATION STEPS:

1. Drill holes as needed per installation template shown above.
2. Feed cable through 1/2" hole.
3. Attach reader to any flat surface with two #6 round head screws.
4. Snap label insert into front of reader to cover screws.
5. Connect cable to control panel per wiring diagram shown below.



## READER CONNECTION

WIRE#	WIRE COLOR	DESCRIPTION
1	RED	9-14 VDC
2	BLACK	GROUND
3	GREEN	DATA- 0
4	WHITE	DATA-1
5	BROWN	RED LED INPUT*
6	BLUE	GREEN LED INPUT*

\*Connect to GROUND to obtain either LED color.

## POWER REQUIREMENTS

9-14 VDC, 90 mA maximum

## INPUTS & OUTPUTS

Output Sink Current 15mA  
 Output Source Current 5mA  
 LED Bicolor (Red or Green)  
 Maximum Distance 500 ft. (5 conductor 20 gauge shielded cable)

## ENVIRONMENT

Access Control Unit and Key Tag  
 Ambient Temperature -40° to +70°C (-40° to +158°F)  
 Humidity 0 to 95% (non-condensing)

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## INSTRUCTION TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate this equipment.

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