

## 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.

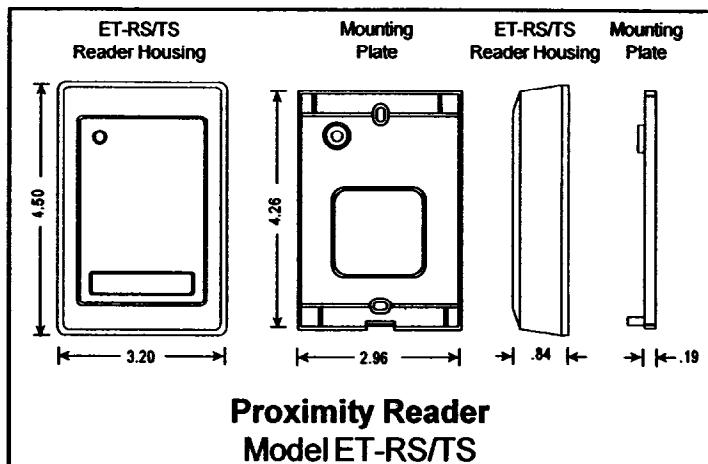


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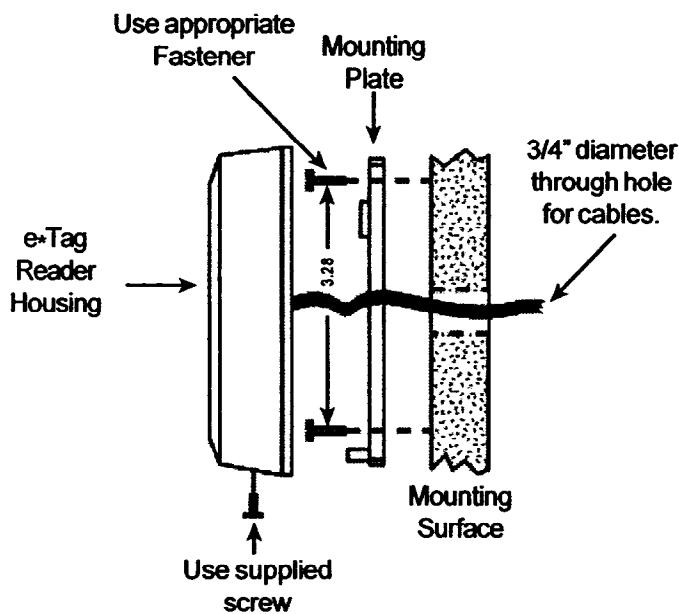
# e\*TAG™ ET-RS / ET-TS Installation Instructions

## INSTALLATION STEPS:

1. Drill holes as needed per installation diagram shown below.
2. Feed cable through 3/4" hole.
3. Attach the mounting plate to the mounting surface with the appropriate fasteners.
4. Attach the housing to the mounting plate by inserting the two tabs inside the top of the housing into the two slots at the top of the mounting plate.
5. Secure by installing supplied screws into the hole at the bottom of the reader.
6. Connect ET-RS/TS cable per wiring diagram shown below.



## BASIC INSTALLATION DIAGRAM



READER CONNECTIONS				
WIRE COLOR	ET-RS-C DESCRIPTION	ET-TS-C DESCRIPTION	ET-RS-A DESCRIPTION	ET-TS-A DESCRIPTION
RED	12-15 VDC	12-15 VDC	12-15 VDC	12-15 VDC
BLACK	GROUND	GROUND	GROUND	GROUND
GREEN	RXD	RXD	RXD	RXD
WHITE	TXD	TXD	TXD	TXD
BROWN	N/A	N/A	RED LED	RED LED
ORANGE	N/A	N/A	GREEN LED	GREEN LED
BLUE	N/A	N/A	BUZZER	BUZZER
VIOLET	N/A	N/A	N/A	N/A

## POWER REQUIREMENTS

12-15 VDC, 120 mA maximum

## INPUTS & OUTPUTS

Output Sink Current 100mA  
 Output Source Current 5mA  
 LED Bicolor (Red or Green)

Maximum Distance 50 ft. - 4 to 7 conductor 20 gauge shielded cable (depends on LED or Buzzer controls used)

## ENVIRONMENT

Access Control Unit and Key Tag  
 Ambient Temperature -40° to +70°C (-40° to +158°F)  
 Humidity 0 to 100%

**Secura Key**  
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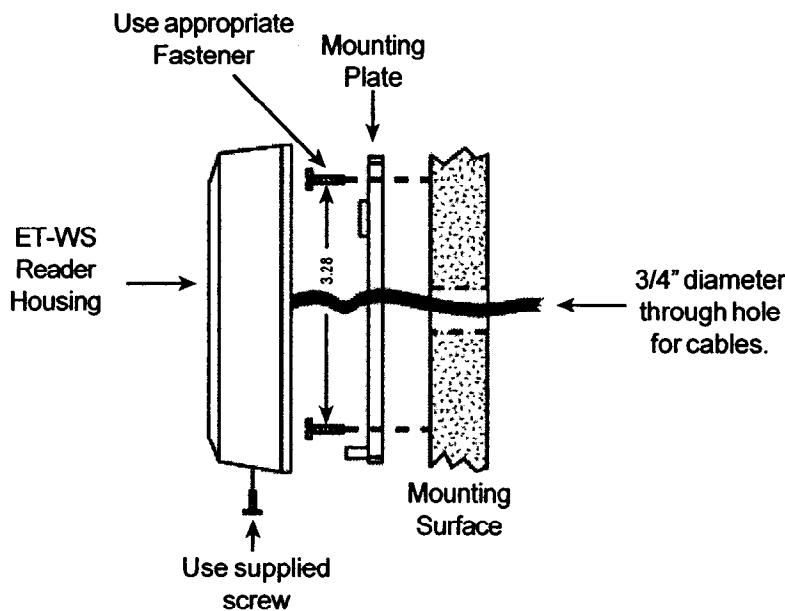
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Web site: www.securakey.com

# e\*TAG™ ET-WS Installation Instructions

## INSTALLATION STEPS:

1. Drill holes as needed per installation diagram shown below.
2. Feed cable through 3/4" hole.
3. Attach the mounting plate to the mounting surface with the appropriate fasteners.
4. Attach the housing to the mounting plate by inserting the two tabs inside the top of the housing into the two slots at the top of the mounting plate.
5. Secure by installing supplied screws into the hole at the bottom of the reader.
6. Connect ET-WS cable per wiring diagram shown below.



## BASIC INSTALLATION DIAGRAM

### POWER REQUIREMENTS

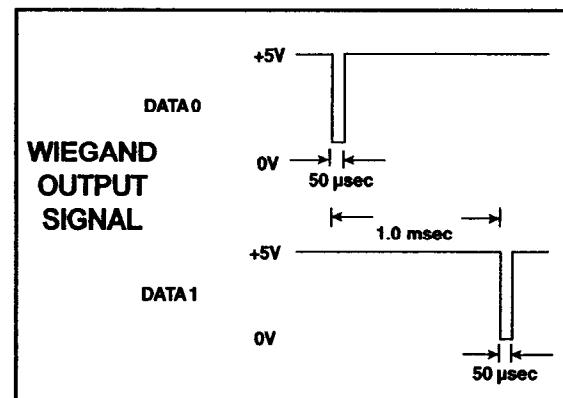
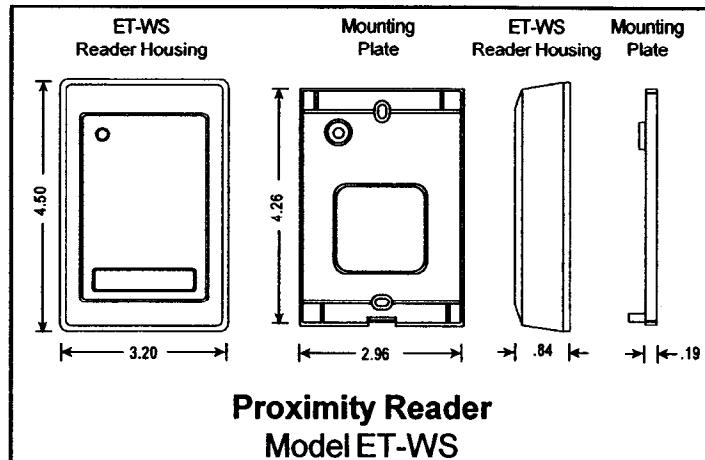
12-15 VDC, 200 mA maximum

### INPUTS & OUTPUTS

Output Sink Current	100mA
Output Source Current	5mA
LED	Bicolor (Red or Green)
Buzzer	Short chirps upon presentation of any Secura Key transponder, also controlled by input.
Maximum Distance	500 ft. - 5 to 7 conductor 20 gauge shielded cable (depends on LED or Buzzer controls used)

### ENVIRONMENT

Access Control Unit and Key Tag	
Ambient Temperature	-40° to +70°C (-40° to +158°F)
Humidity	0 to 100%



## READER CONNECTION

WIRE#	WIRE COLOR	DESCRIPTION
1	RED	12-15 VDC
2	BLACK	GROUND
3	GREEN	DATA-0
4	WHITE	DATA-1
5	BROWN	RED LED INPUT*
6	ORANGE	GREEN LED INPUT*
7	VIOLET	N/A
8	BLUE	N/A

\*Connect to GROUND to activate.

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