

INFRARED TOUCH FREE WIRELESS SWITCH

Use and Installation Manual



FKTHS2641E1

Thank you for choosing this product. You are recommended to read this manual carefully before installing this product.

1 - INTRODUCTION

The Touch Free transmitter is a special radio transmitter operating at 433 MHz in AM/ASK modulation. It's mainly composed by an infrared sensitive circuit and by a radio transmitter. It can be used to operate gates or garage doors or any device with the corresponding compatible 433 MHz receiver. The security protocol is a rolling code type.

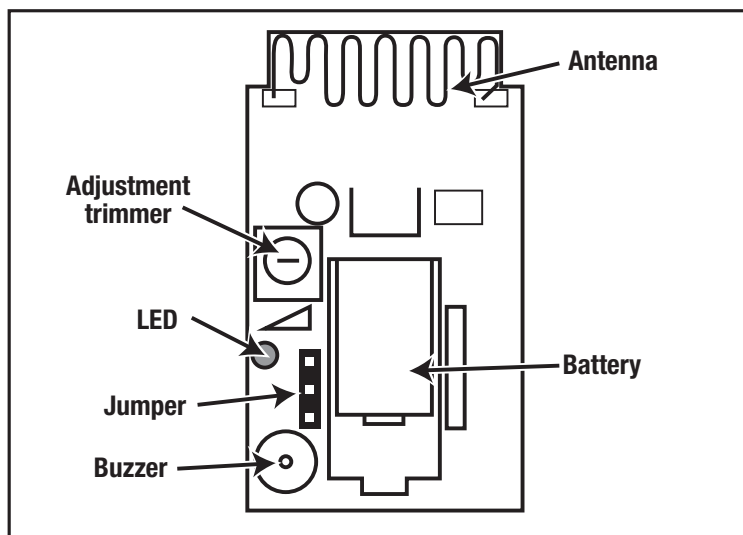
Each product is already factory programmed with a different security code. The button is battery supplied with a CR123A lithium battery for 1 year life. The enclosure protection grade IP55 allows outdoor installations. The product fully complies to the requirements of the European Directives 73/23/CEE, 89/336/CEE, 99/05/CE and FCC Rules Part 15.

2 - TECHNICAL SPECIFICATIONS

Carrier frequency	433.92 MHz
N° channels	1
Rated E.r.p.	1 mW
Battery type	CR123A
Operating voltage	3 VDC
Current consumption	100 μ A: stand-by 20 mA: transmission
Battery life	12 months
Code combinations	Keeloq® Hopping code
Security protocol	2exp64
Activation sensitivity	About 3-14 cm
Radio Range in open space	200/400 m
Operating temperature	-20°/+80°C
Enclosure IP grade	IP55
Dimensions (mm)	60 x 90 x 27
Weight (gr)	93

3 - INSTALLATION PHASES

1. Locate the best position for the installation, avoiding metallic surfaces that could decrease the RF transmission.
2. Using the box bottom as a template, mark the position of the 4 mounting holes.
3. Drill the mounting holes and insert the plugs.
4. Assemble base and seal together, install to mounting surface using 4 screws.
5. Install the module to base and secure with the screws.



4 - OPERATE

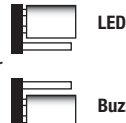
The button operates when you approach over the external surface with the hand. The sensitivity of the detector is adjustable with a trimmer. Approach the cover or touch it until the buzzer sounds. The RF transmissions is indicated by the sound of the buzzer or the light of the LED and lasts all the time the buzzer sounds or the LED is on. Normally it's necessary to approach over the cover with the hand and not only with a single finger.

5 - ADJUSTMENT

Rotate the trimmer clockwise to increase the sensitivity and anticlockwise to reduce the sensitivity. A higher sensitivity allows to activate the RF transmission from a longer distance from the enclosure surface.



It's possible to select which type of signal is active (LED light or buzzer sound). Use the jumper as shown in the figure.



6 - BATTERY REPLACEMENT

The appliance uses a lithium battery type CR123A. Insert the new battery in the battery location, respecting the right polarity. The removal and the disposal of the battery must have effected before the elimination of the appliance and according to the current regulations. **ATTENTION:** Danger of explosion if the battery is not replaced in the correct way. Replace only with an equal type.

GUARANTEE

The warranty period of this product is 24 months, beginning from the manufacturing date. During this period, if the product does not operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of Transmitter Solutions. This warranty does not extend to the product casing which can be damaged by conditions outside of the control of Transmitter Solutions.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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