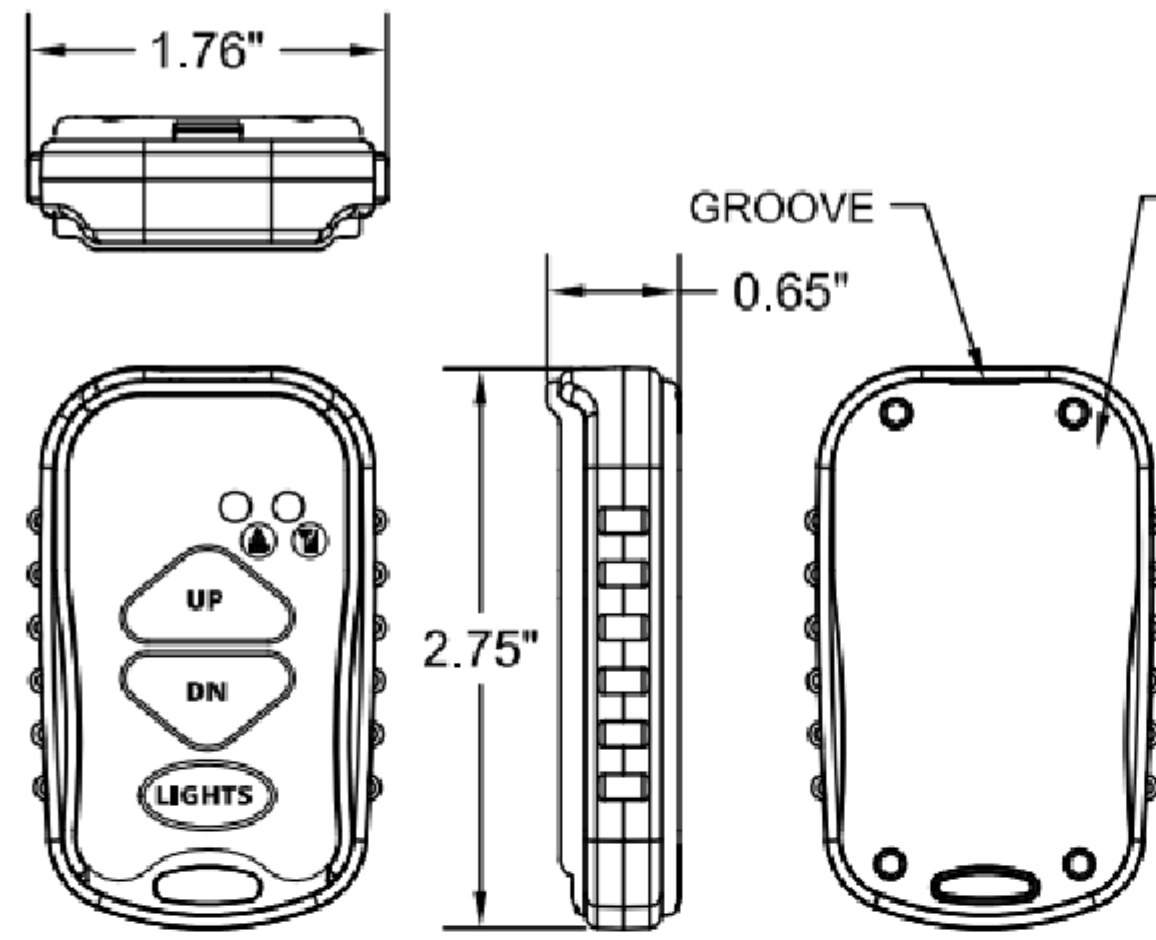
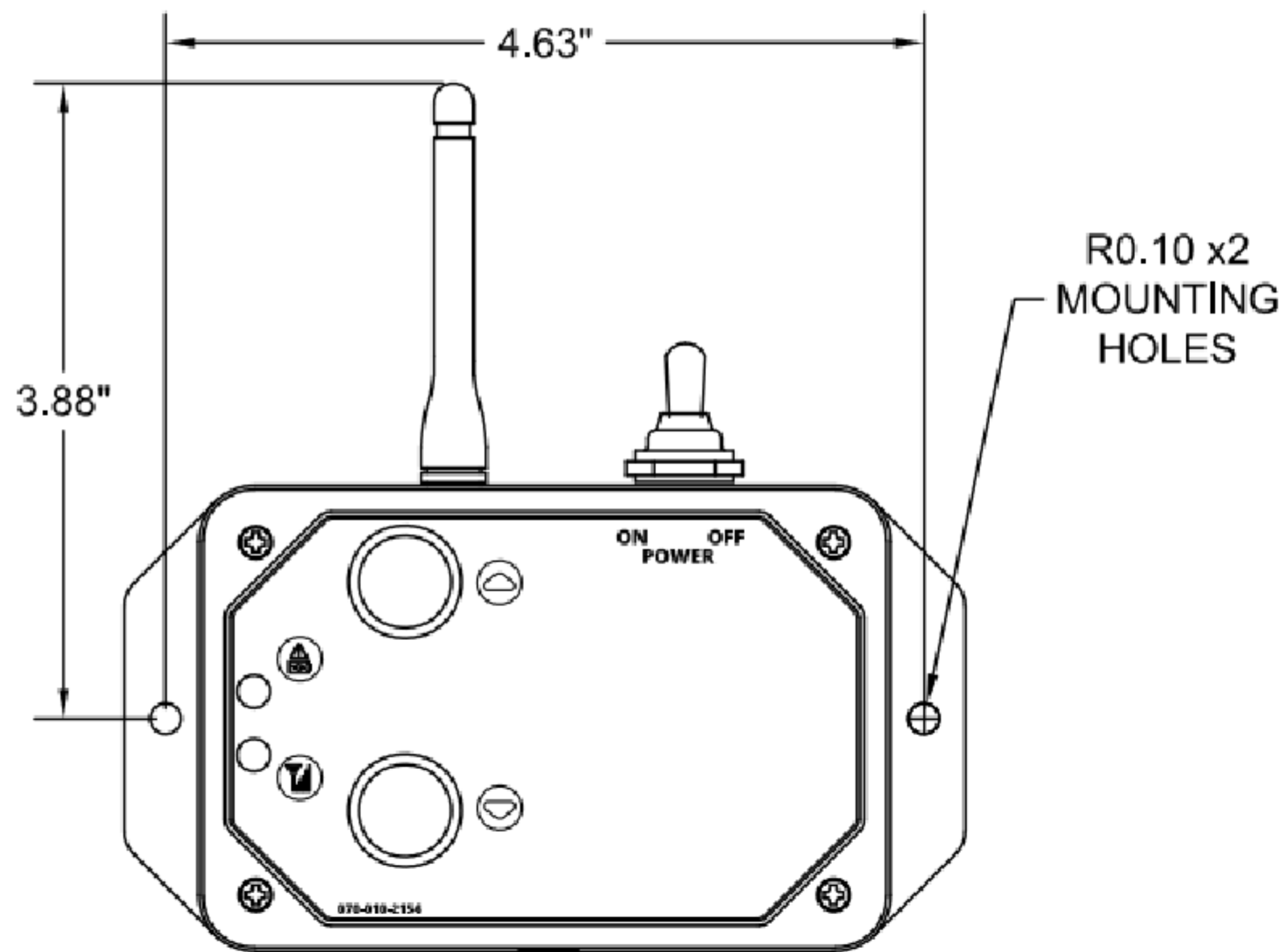
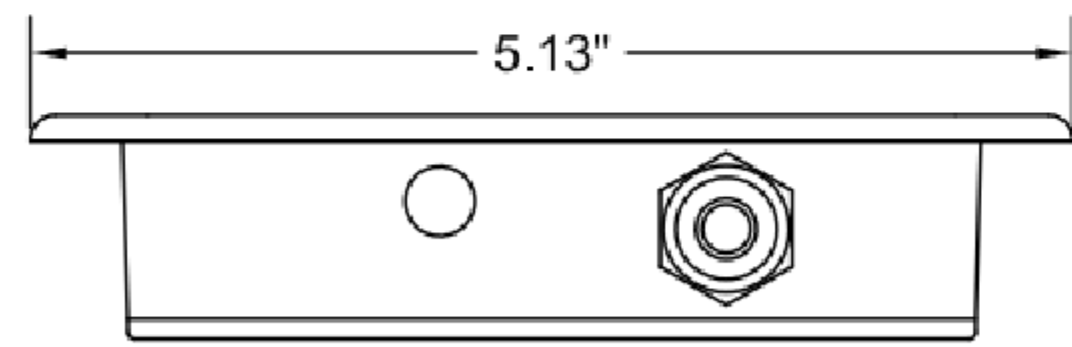


P/N: 3A4951A
 KIT, NANO 3 FUNCTION
 INCLUDING:
 1 3A4952A TRANSMITTER
 1 3A4953A RECEIVER



TO REPLACE THE INTERNAL CR2032 DISPOSABLE BATTERY, REMOVE 4 ALLEN SCREWS USING A 5/16" ALLEN WRENCH. LIFT BACK COVER USING GROOVE. DO NOT OVER TIGHTEN THE SCREWS WHEN RE-ASSEMBLING BACK COVER.

TRANSMITTER
 P/N: 3A4952A

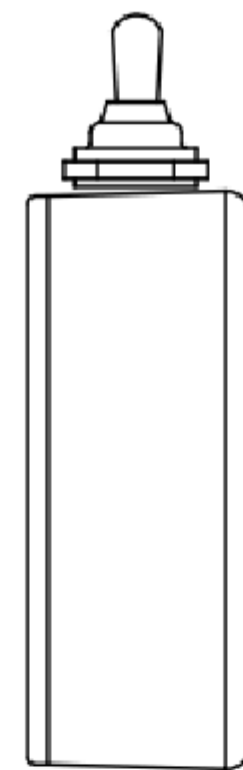


RECEIVER ERROR CODE CHART

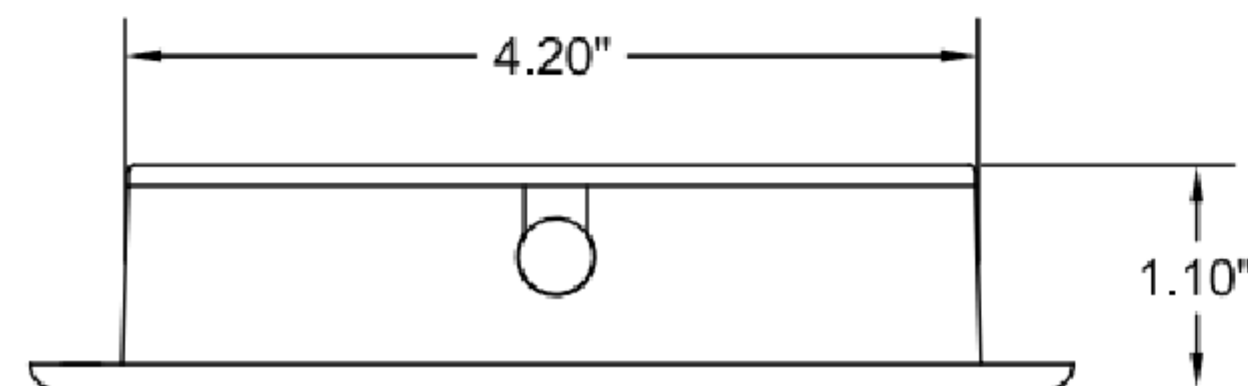
ERROR CODE	PROBABLE CAUSE
1	NO RADIO COMMUNICATION
2	FAULTY CIRCUIT LIGHTS OUTPUT
3	FAULTY CIRCUIT TO PUMP OUTPUT
4	FAULTY CIRCUIT TO UP OUTPUT
5	FAULTY CIRCUIT TO DOWN OUTPUT
6	LOW SYSTEM VOLTAGE (< 10V)

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.

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 any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Kar-Tech will void the user's authority to operate the equipment.



RECEIVER
 P/N: 3A4953A



DEUTSCH DT04-6P, KT P/N: 055-157-0602

PIN	COLOR	DESCRIPTION
1	RED	POWER (9-30 VDC)
2	BLACK	GROUND
3	BLUE	LIGHTS ON LATCHING OUTPUT
4	ORANGE	PUMP OUTPUT
5	WHITE	LIFT UP OUTPUT
6	GREEN	LIFT DOWN OUTPUT

OPERATION:

- Press any button to begin operation. This will turn on the transmitter and turn on the selected output at the same time. The transmitter remains on for additional 30 seconds after button is release and then turns off automatically irrespective of receiver status.
- The green LED light on the transmitter will blink 2 times per second when the transmitter and receiver are communicating. It will blink 1 time per second if there is no communication (i.e. - no power to the receiver)
- The red LED light on the transmitter will blink if the battery is low and should be replaced.
- PUMP output comes on with the UP & DOWN outputs and they are momentary.
- LIGHTS output is latching. LIGHTS output stays on for 5 minutes if left on.
- All outputs turn off except LIGHTS for out of range.
- All outputs turn off if system voltage goes below 10 VDC.

SYNCHRONIZING TRANSMITTER AND RECEIVER:

Each radio remote system is designed to operate with a unique radio ID code and RF channel sequence. Each receiver is programmed to respond only to the transmitter with the correct ID code/RF channel sequence. This feature allows multiple systems to work in close proximity to one another without interference. In the event that a transmitter becomes damaged and a new one is needed, the receiver can be reprogrammed to respond to the new transmitter. To teach the ID code to the receiver, use the following procedure:

1. Make sure the receiver and transmitter are OFF.
2. Press and hold UP and LIGHTS buttons for five seconds until both LEDs start blinking then release buttons.
3. Apply power to the receiver.
4. Wait for ~5 seconds or until the green LED on the transmitter starts blinking rapidly.
5. Teach complete.

CLONING TRANSMITTERS:

WARNING! - This feature can pose a safety hazard for operators if both transmitters are used simultaneously-use with CAUTION!

Occasionally, it is desirable to have more than one transmitter work with a single receiver. This is accomplished by a process called cloning. Cloning allows an additional transmitter (B) to have the same ID code as the original transmitter (A). If this feature is desired, use the following procedure:

1. Make sure both transmitters and the receiver are off
2. On Transmitter A, press and hold UP and LIGHTS buttons for five seconds until both LEDs start blinking then release buttons
3. On Transmitter B, press and hold UP and DOWN buttons for five seconds until both LEDs start toggling then release buttons
4. Wait for ~5 seconds until the green LEDs start blinking rapidly
5. Cloning complete

If the cloning feature has been invoked and is no longer desired, the ID code of one of the transmitters needs to be changed. This will unclone the transmitters. If this is desired, use the following procedure:

1. Make sure the receiver and transmitter are OFF
2. Press and hold UP, DOWN and LIGHTS buttons for five seconds until both LEDs start toggling then release buttons
3. Press any button again to select a new ID
4. uncloning complete
5. Follow the SYNCHRONIZING TRANSMITTER AND RECEIVER procedure above to link the undoned transmitter to a new receiver

SPECIFICATIONS:

Power:

- Transmitter: CR2032, 3V Lithium battery
- Battery life: 15 hrs of operation
- Receiver: +9VDC to +30 VDC

Receiver solid state output rating: 5A each (sourcing), 20A system maximum
 RF: 902-928MHz FHSS 4mW

Environmental:

- Operating temperature:
 - Transmitter: -20 to +60°C
 - Receiver: -40 to +85°C
- Ingress Protection:
 - Transmitter: IP64
 - Receiver: IP65

GENERAL NOTES

REV	DESCRIPTION	DATE



17611 EAST STREET
 N. FORT MYERS, FL 33917
 239-337-4141
 MSHANLEY@GOLDENMARINESYSTEMS.COM

PREPARED FOR:

GOLDEN BOAT LIFTS

PROJECT NAME & LOCATION:

NANO RADIO
 REMOTE CONTROL
 P/N: 3A4951A

APPROVALS	DATE

DRAWN BY:

CHECKED BY:

APPROVED BY:

SCALE: 1:1

SHEET: