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> 15170-001 LED Indicator Integrated Tactile Trim Tab Switch Kit User Manual

**sixcow 15170-001**

# 15170-001 LED Indicator Integrated Tactile Trim Tab Switch Kit User Manual

Brand: sixcow | Model: 15170-001

## 1. PRODUCT OVERVIEW

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The sixcow 15170-001 LED Indicator Integrated Tactile Switch Kit is designed as a replacement part for Lenco Marine Single Actuator Systems. This advanced switch kit integrates control box functionality directly into the keypad bezel, offering enhanced accuracy and ease of use. It features high-intensity LED indicators that provide real-time trim tab position feedback, a backlit keypad for night viewing, and a photo eye sensor that adjusts indicator intensity based on ambient light conditions for optimal visibility.

# 15170-001

## LED Indicator Integrated Tactile Switch Kit with Pigtail

Compatible with Lenco Marine Single Actuator Trim Tabs  
Also Suitable for standard and HD performance trim tabs with single actuators system



Image 1.1: Overview of the 15170-001 LED Indicator Integrated Tactile Switch Kit, highlighting its compatibility with Lenco Marine Single Actuator Trim Tabs.

## 2. WHAT'S IN THE BOX

- 15170-001 LED Indicator Integrated Tactile Switch Kit

The kit includes the integrated keypad with its wiring harness and power pigtail, ready for installation.

## 3. KEY FEATURES

- **Compatibility:** Specifically designed for Lenco Marine Single Actuator Trim Tabs, including standard and HD performance models.
- **Advanced LED Indicators:** Equipped with two high-intensity LED indicators for precise and clear feedback on trim tab positions at all times.

- **Integrated Control Box Functionality:** Enhances overall accuracy and control by integrating the control box into the keypad bezel.
- **User-Friendly Design:** Features a built-in retractor for automatic neutral positioning and a photo eye sensor that adjusts LED intensity based on ambient light.
- **Backlit Keypad:** Provides enhanced visibility for effortless operation during nighttime conditions.
- **Plug & Play Installation:** Designed for straightforward and quick installation with waterproof Deutsch connectors.

## Upgraded LED Indicators

Equipped with 2 high-intensity LED indicators, provides precise and clear feedback on trim tab positions at all times, while the integrated control box functionality enhances overall accuracy and control.



Image 3.1: Close-up view of the upgraded LED indicators, showing precise trim tab position feedback.

# User-Friendly Design, Better Operation

Auto-adjusts LED brightness with ambient light and has a backlit keypad for easy nighttime use.



## ✓ Built-in Retractor

For automatic neutral positioning

## ✓ Photo Eye Sensor

Reads ambient light and adjusts the LED intensity for optimum viewing in all lighting conditions

## ✓ Backlit Keypad

Provides enhanced visibility for effortless operation at night.



Image 3.2: Illustration of the user-friendly design, highlighting the built-in retractor, photo eye sensor, and backlit keypad for optimal operation in various lighting conditions.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of your 15170-001 LED Indicator Integrated Tactile Switch Kit:

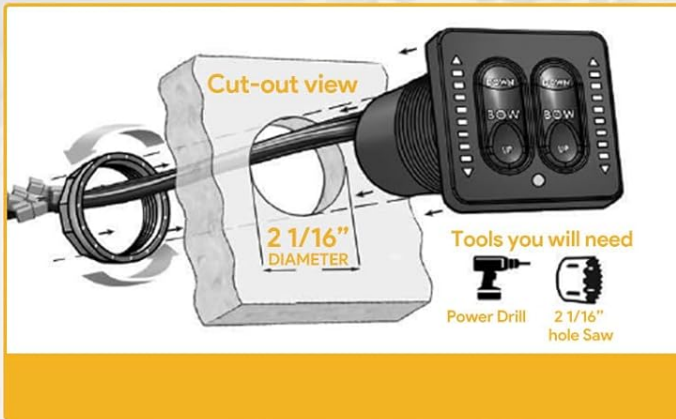
- 1. Prepare Helm:** At the helm, determine the ideal location for the tactile keypad. Use the supplied switch template to mark the cut-out area. Ensure the area behind the helm is clear of any wires or equipment that could be damaged during cutting.
- 2. Cut Opening:** Using a 2 1/16" (5.24 cm) hole saw, carefully cut a circular opening at the marked location. The hole must be precisely 2 1/16" in diameter.
- 3. Install Keypad:** Place the keypad and its wiring into the newly cut 2 1/16" hole. Feed the wires through the bezel nut. Hand-tighten the keypad's bezel nut onto the backside of the helm to secure the unit.
- 4. Connect Wiring Harnesses:** Connect the main wiring harnesses. The system uses waterproof Plug & Play

Deutsch connectors for easy and secure connections.

5. **Connect Retractor Wire (Orange):** Each switch kit includes an orange retractor wire. This wire **must** be connected to an on/off power source. This connection ensures that the trim tabs retract to the up position when power or an analog signal is removed, and then shuts the system down into stand-by mode. **Important:** Do not install the orange wire and the main power on the same mechanical switch.

## Easy To Use

Enjoy a straightforward installation with our included manual.



### Installation Steps:

**Prepare Helm:** Determine the location for the tactile keypad, attach supplied switch template, and cut a 2 1/16" (5.24 cm) circular opening. Ensure the area inside the helm is clear of wires and equipment.

**Install Keypad:** Insert the keypad and wiring into the 2 1/16" hole, feed the wires through the bezel nut, and hand-tighten the bezel nut onto the backside of the helm.

**Connect Retractor Wire:** Connect orange retractor wire to a separate on/off power source. Do not connect orange wire and main power to the same mechanical switch.

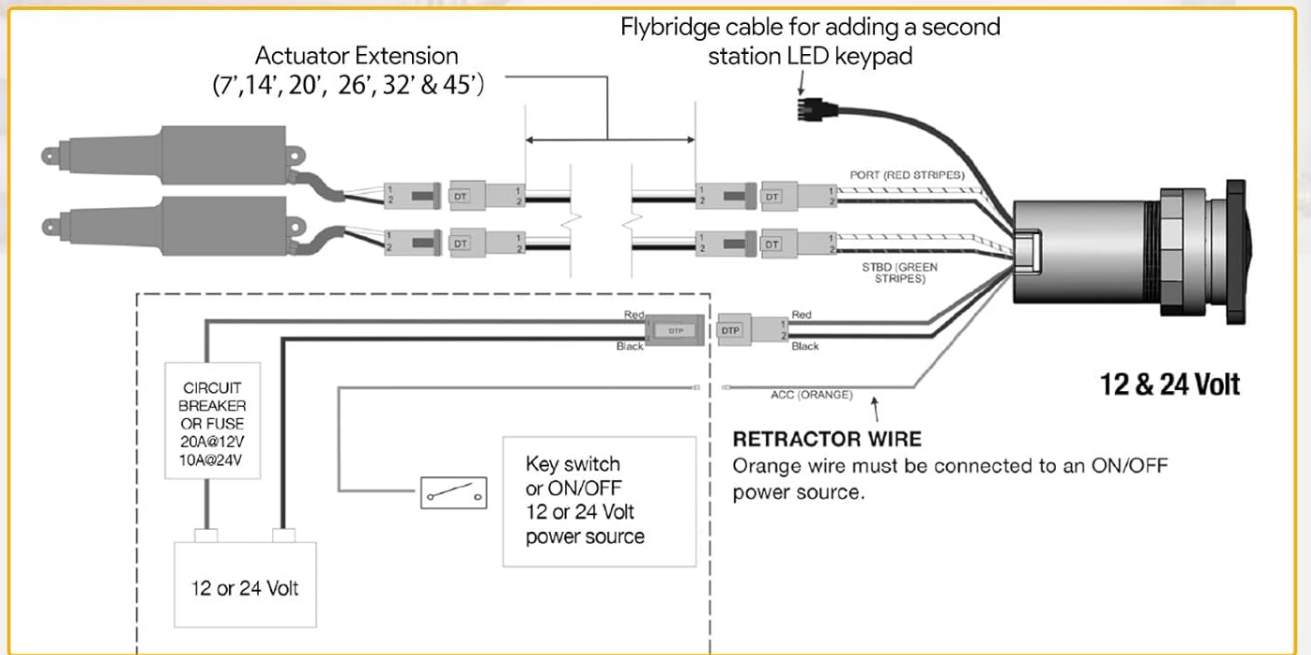


Image 4.1: Visual guide for installation, showing the cut-out view, required tools (power drill, 2 1/16" hole saw), and a diagram of the keypad and wiring.

# Product Specifications

Professionally manufactured and tested to OEM standard,  
Crafted from high-quality brass, rubber and plastic, resists high temperatures, oxidation,  
and rust, ensuring long-lasting performance and reducing the need for frequent replacements.

- ✓ Wiring harness length 30" (76.2 cm) from the back of the switch bezel 36" power pigtail
- ✓ 2 1/16" hole cut-out size, overall key pad size of 2.75" x 2.75"
- ✓ 4.08" clearance required from the back of the key pad's mounting location

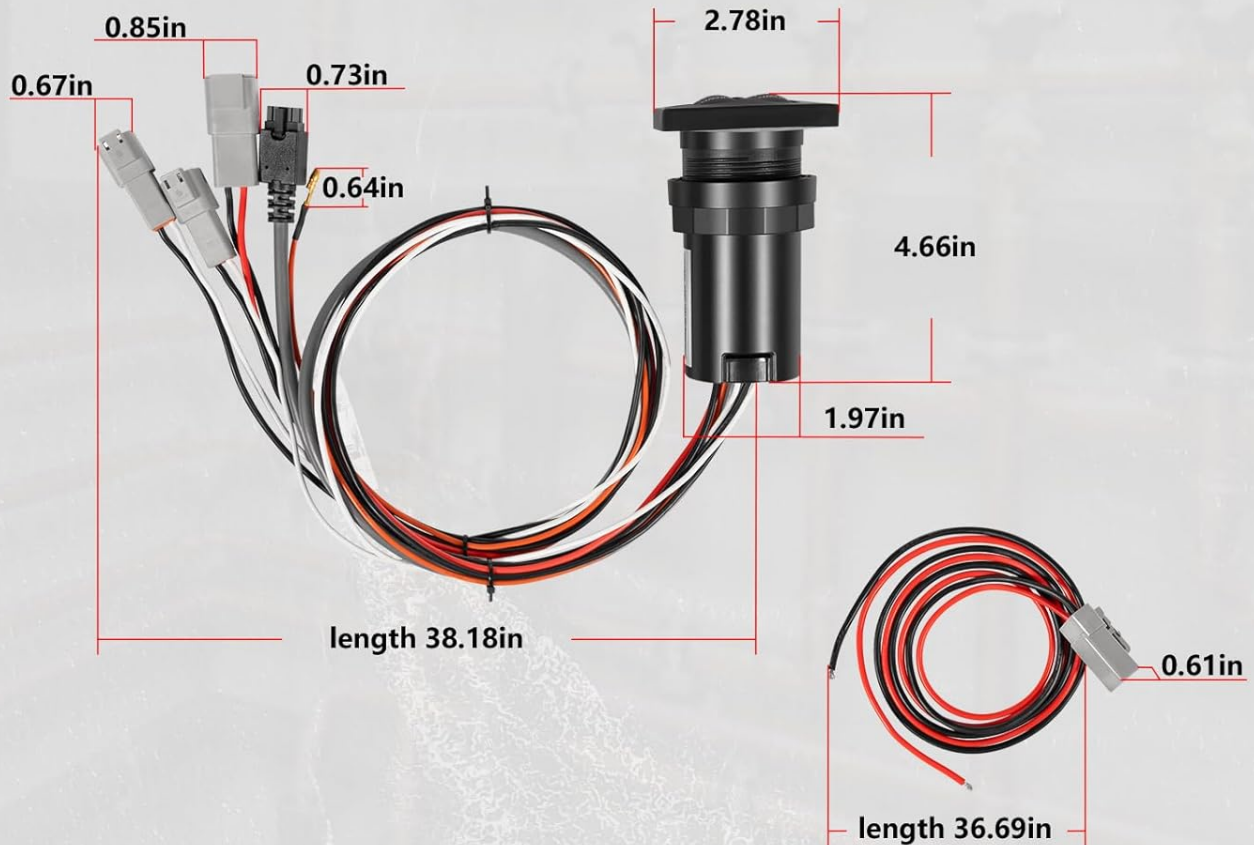


Image 4.2: Detailed wiring diagram illustrating connections for the actuator extension, flybridge cable, circuit breaker, key switch, and the critical orange retractor wire for 12 & 24 Volt systems.

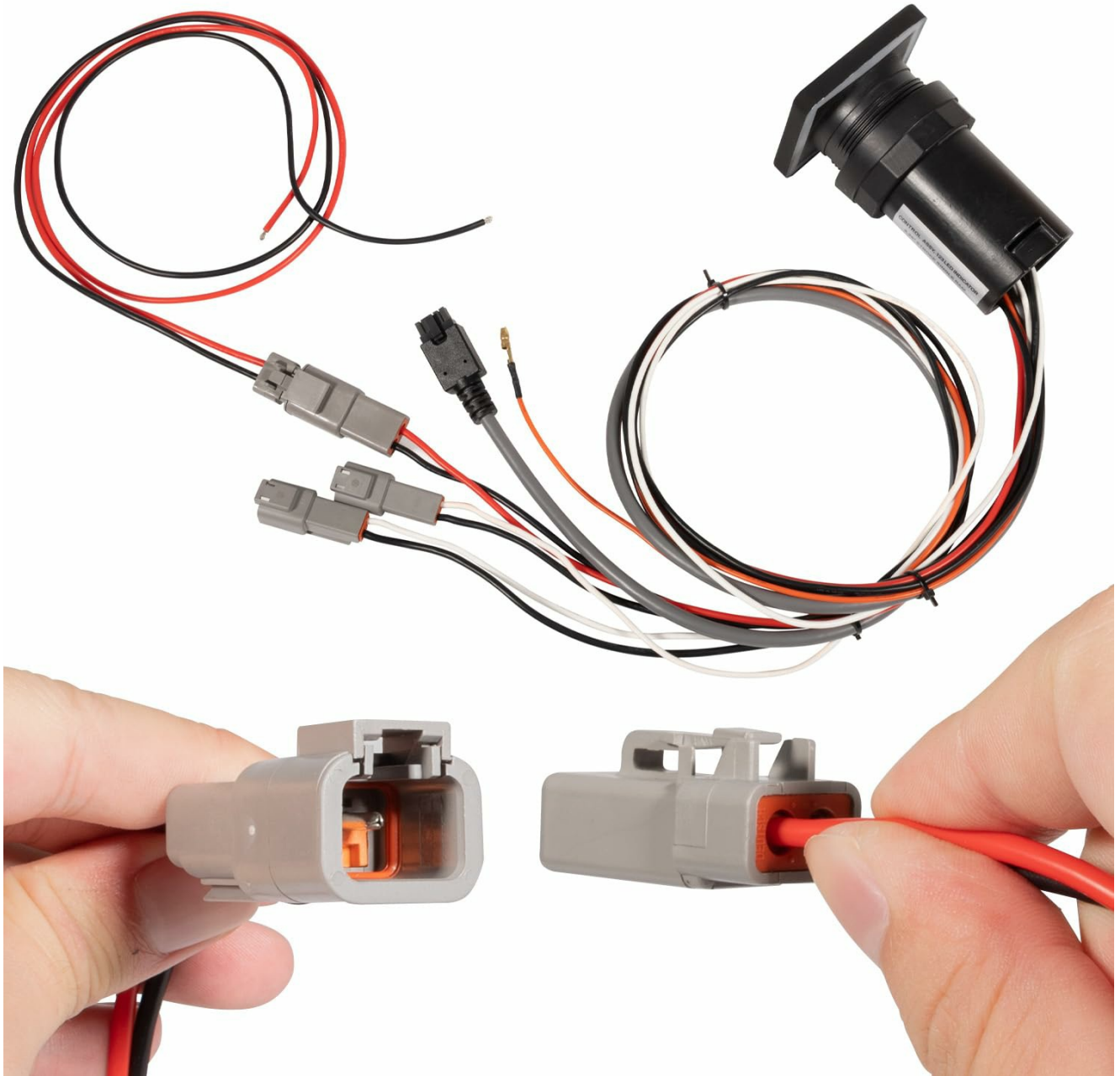


Image 4.3: Demonstration of connecting the Plug & Play Deutsch connectors, ensuring a secure and waterproof connection.

## 5. OPERATION

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Operating the 15170-001 LED Indicator Integrated Tactile Switch Kit is intuitive:

- **Trim Tab Control:** Use the 'UP' and 'DOWN' buttons for each trim tab (Bow and Stern, or Port and Starboard depending on configuration) to adjust their position.
- **LED Indicators:** The two high-intensity LED displays on the keypad will show the exact position of your trim tabs in real-time. Observe these indicators to achieve the desired trim.
- **Automatic Brightness Adjustment:** The integrated photo eye sensor automatically reads ambient light conditions and adjusts the intensity of the LED indicators for optimum viewing, whether in bright daylight or low-light environments.
- **Night Viewing:** The backlit keypad automatically illuminates the graphics, ensuring clear visibility and easy operation during night use.
- **Instant Response:** The tactile switch technology provides an instant response to commands, allowing for precise adjustments.

- **Built-in Retractor:** When the power to the orange retractor wire is removed, the system automatically retracts the tabs to the up position and enters stand-by mode.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your sixcow 15170-001 LED Indicator Integrated Tactile Trim Tab Switch Kit, consider the following general maintenance guidelines:

- **Regular Cleaning:** Periodically wipe down the keypad surface with a soft, damp cloth to remove salt residue, dirt, and grime. Avoid abrasive cleaners or solvents that could damage the finish or electronics.
- **Inspect Connections:** Annually or bi-annually, inspect all wiring connections, especially the Deutsch connectors, to ensure they are secure and free from corrosion. While the connectors are waterproof, ensuring a tight seal is crucial for marine environments.
- **Check for Damage:** Visually inspect the keypad and wiring for any signs of physical damage, cracks, or frayed wires. Address any issues promptly to prevent further complications.
- **Keep Dry:** Although designed for marine use, minimizing prolonged exposure to direct water spray when not in use can help preserve the unit. Ensure the mounting area remains sealed to prevent water ingress behind the helm.

## 7. TROUBLESHOOTING

If you encounter issues with your 15170-001 LED Indicator Integrated Tactile Trim Tab Switch Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Keypad or LEDs do not light up / No function	No power supply; Loose or incorrect wiring; Blown fuse/breaker.	Check all power connections, especially the main power and the orange retractor wire. Ensure they are connected to active power sources. Verify all Deutsch connectors are fully seated. Check the boat's fuse panel or circuit breaker for the trim tab system.
One side (Port/Starboard) of the switch or LEDs is not functioning correctly	Loose connection to the specific actuator; Faulty actuator; Internal keypad issue.	Inspect the wiring connections for the affected side. Ensure the actuator's connection to the main harness is secure. If the issue persists, it may indicate a problem with the actuator itself or the keypad unit. Contact customer support for further diagnosis.
Trim tabs do not retract fully or automatically	Orange retractor wire not connected to an on/off power source; Power interruption to the retractor wire.	Ensure the orange retractor wire is correctly wired to a switched power source that turns off when the boat's ignition or main power is off. Verify the connection is secure and not intermittent.
LED indicator intensity is incorrect or not adjusting	Photo eye sensor obstructed or faulty.	Ensure the photo eye sensor on the keypad is clean and not obstructed by dirt or debris. If the issue persists, the sensor may be faulty.

If these troubleshooting steps do not resolve the issue, please contact sixcow customer support for assistance.

## 8. SPECIFICATIONS

Detailed technical specifications for the 15170-001 LED Indicator Integrated Tactile Trim Tab Switch Kit:

Specification	Detail
Model Number	15170-001
Operation Mode	Manual
Current Rating	1 Amps
Operating Voltage	12 Volts
Contact Type	Normally Open
Connector Type	Plug In (Deutsch connectors)
Terminal Type	Quick-connect
Circuit Type	1-way
Mounting Type	Plug In Mount
Wiring Harness Length	30" (76.2 cm) from back of switch bezel
Power Pigtail Length	36"
Hole Cut-out Size	2 1/16" (5.24 cm)
Overall Keypad Size	2.75" x 2.75"
Required Clearance (from back of keypad)	4.08"
Product Dimensions	10 x 7 x 2 inches; 1.04 Pounds (packaged)

# Product Specifications

Professionally manufactured and tested to OEM standard, Crafted from high-quality brass, rubber and plastic, resists high temperatures, oxidation, and rust, ensuring long-lasting performance and reducing the need for frequent replacements.

- ✓ Wiring harness length 30" (76.2 cm) from the back of the switch bezel 36" power pigtail
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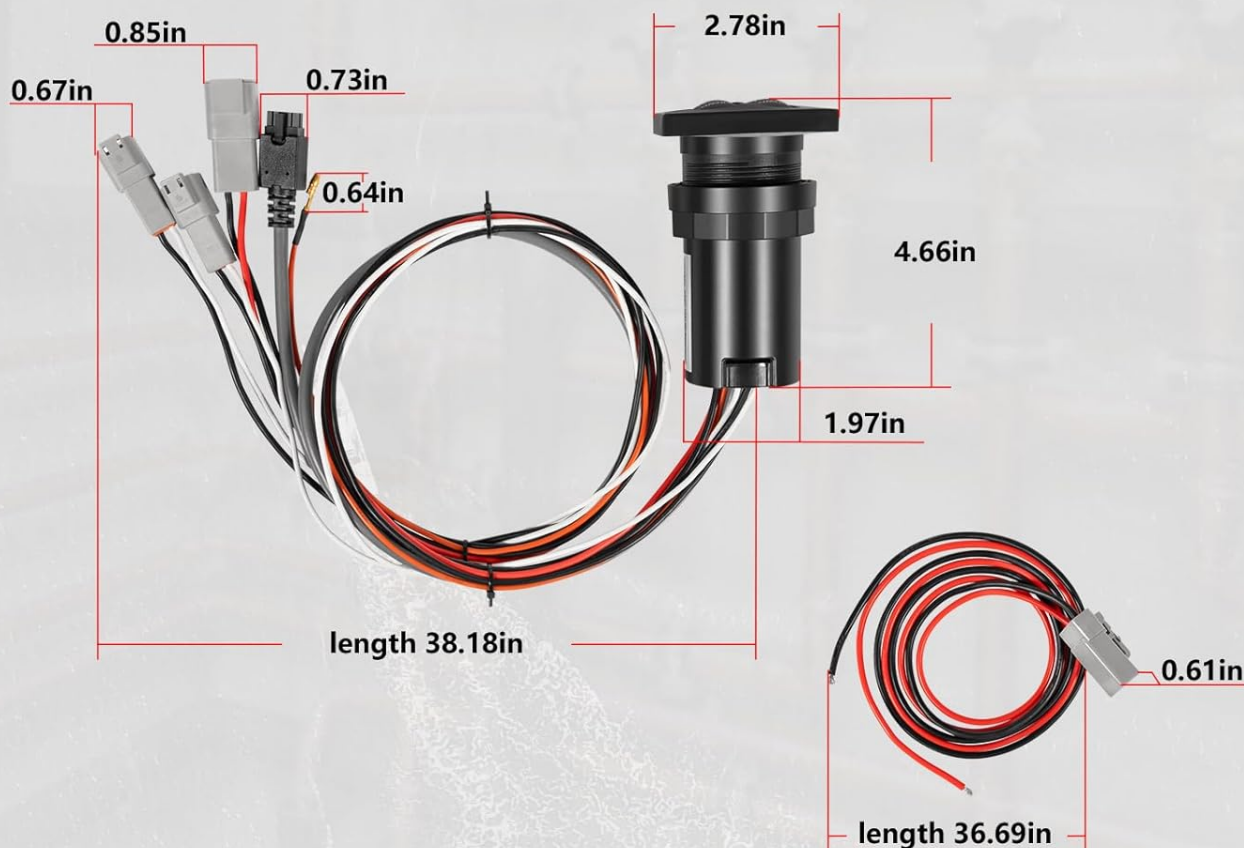


Image 8.1: Diagram illustrating the physical dimensions of the keypad and wiring components, including lengths and clearances.

## 9. WARRANTY AND SUPPORT

Your satisfaction is a priority for sixcow. All sixcow products, including the 15170-001 LED Indicator Integrated Tactile Trim Tab Switch Kit, are backed by a comprehensive warranty and support policy:

- **30-Day Money-Back Guarantee:** If you are not completely satisfied with your purchase, you may return it within 30 days for a full refund.
- **12-Month Warranty:** The product is covered by a 12-month warranty for quality-related issues. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any inquiries regarding your product, please contact sixcow customer service through the retailer where you purchased the item or visit the official sixcow website for contact information.

