



TouchFree Button Installation Guide

The Novax TouchFree Button enables pedestrians to activate a button request with a simple hand-wave. The 3D TouchFree™ Gesture Recognition Sensors detects Hand Waving motion in three dimensions (Axis). Once the button is activated, the Red LED will momentarily light up supported by an audible tone.



Installation Steps:

1. Take the existing 2 Push Button Wires and attach to the back of TouchFree Button's Philip-Screws terminal. Terminal connections are Non-Polarized.
 - Supply voltage from the Pedestrian Isolator will be Nominal 18VDC - 36VDC or 12 – 25VAC
 - Compatible with Caltran242 / 242L /244 DC Isolator
2. Use 4 Capscrew, Hex Skt Hd, SS, 8-32 x 5/8 Security Screws to secure the TouchFree Button on either New or Existing round base.
 - 4 Security Screws included with the Button
 - TouchFree Button can be Retrofitted to all Standard Round Push Button Base
3. Wave Hand across the Button (Left – Right, Up – Down or any Direction) from 1 to 15cm to Activate a Pedestrian Request.
 - The Button's top Red LED will Blink-On once and play a Double-Tone to confirm activation.
 - To Activate 3sec Pedestrian Request – Pedestrian must place their hand in-front of the Sensors (within 3cm) for 3sec. The Button's top RED LED will Blink-On three times and play Triple-Tone to confirm 3sec activation.





Features

- ✓ 3D TouchFree Gesture Recognition
- ✓ Protects against false triggering
- ✓ Over-the-Air Firmware Update
- ✓ Plugs into Existing Round base
- ✓ Bluetooth Configuration
- ✓ Tamperproof Protection
- ✓ Field Upgradable (approx. 5-10min)
- ✓ Lowest cost upgrade solution

Product Features	
Bluetooth	Compliant with Bluetooth v5.1 and BLE specification
Long Range	Sub 1GHz Long Range Communication
Electrical Specification	
Voltage Range	Supply voltage from the Pedestrian Isolator will be Nominal 18- 36VDC or 12 - 25VAC No External Power required – Power Harvesting Technology - Maximum of 2 TouchFree Buttons for each Pedestrian Isolator Channel - If more than 2 TouchFree Button is required or the Pedestrian Isolator system have 12 – 16VDC, Contact Manufacturer for Installation Support
Touch-Free Sensor	
Detection Range	Default Max (detection) Setting: 15cm (6 inches). Minimum distance 1cm (~0.5") Configurable Maximum 3 to 15cm (~1 to 6 inches)
Detection Type	3D Touch-Free Gesture Recognition ¹ , or Steady Presence. (Default= 3D Touch-Free). Min detection time = 0.5 sec / Max detection time = 3.0 sec
Fault Management	Triple Sensors for redundant failsafe operation. Tamperproof protection - NO constant-callout" (for sensor blocking or physical contact) - Gesture recognition protects against false triggering from passing pedestrians (Optional) Tap to Activate
Detection Materials	Detects all skin types, fabrics, of all colors.
Environmental Protection	Works under darkness and direct sunlight, UV protection. Dirt, dust, snow, and rain tolerant.
Mechanical	
Dimensions for Retro Replacement Product	3.20-inch diameter by 0.625 depth (without Terminal Block) Depth with Terminal Block is 1.032inches
Environmental Range	
Operating Temperature	-35°C to +74°C (-31°F to +165°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Standards	
UL	94V-0 Rated
FCC	Complies with Part 15 FCC Rules
NEMA	NEMA TS2-2003 Temperature and Humidity NEMA TS2-2003 Mechanical Shock and Vibration NEMA TS2-2003 Transient Voltage Protection
Caltrans	Caltrans TEES2009 Temperature and Humidity

1. 3D Touch-Free detects actual hand waving movement in three dimensions.