

Pi Switch

World's Smartest Switch



Rev A - 07.08.2026



The Pi Switch is a high-performance, programmable switch designed for durability and versatility. Engineered to be waterproof, self-fused, and built to last, it ensures reliable operation in any environment. Customizable Control – Program functions and RGB backlighting via the intuitive Bluetooth app.

➤ **Wireless**

➤ **Self Fused**

➤ **Integrated Sensors**

Typical Applications

- Marine
- Automotive
- RV
- Industrial
- Harsh Outdoor Environments

0-2
Outputs

12-24
VDC

0-20
Amps

IP67
Rating

Tech Specs

Electrical

Supply Voltage Range	6 to 30VDC
Reverse Polarity Protection	60VDC
Electrical Endurance	1.8FIT (1.8 Failures per billion device hours)
Mechanical Endurance	100K+ cycles
Current	10A per output (single, dual) 20A bridged (dual only)
Sensors	Voltage (all variants) Tempature (all variants) UV (all variants) Current (single, dual)

Physical

Function	Momentary, latched, timed, etc.
Illumination	Dual, independent RGB, Dimmable
Seals	Silicone, Bezel and Button
Mounting	M19-P1.0 Nut (SUS316), Tightening torque: 2~3Nm
Housing	Polycarbonate
Bezel	Stainless Steel 316 or Aluminum Anodized
Actuation Force	250gf
Weight	50g

Environmental

Operating Temperature	-40° to +185°F (-40° to +85°C)
Storage Temperature	-58° to +302°F (-50° to +150°C)
Vibration	Fully encapsulated electronics
Keypad Paint Resilience	Rub test (2000 cycles, 195 rubs per second, 500g force) with no noticeable wear
Keypad Salt Resilience	300 hours, 5% concentration spray. Not noticeable material degradation
Keypad UV Resilience	Wavelength peak of 365nm, radiation power ~0.58W/m ² for 600 hours
Ingress Protection	IP67
Ignition Protection	Fully encapsulated electronics
Electro-Static Discharge	Compliant with EN61000-4-2 Discharge Level: Max. ±8KV; Discharge Level: Max. ±15KV

Pin Out

Color	Function	Variant
Red	VCC	All
Black	Ground	All
White	Output 1	Single, Dual
White	Output 2	Dual

Single Output



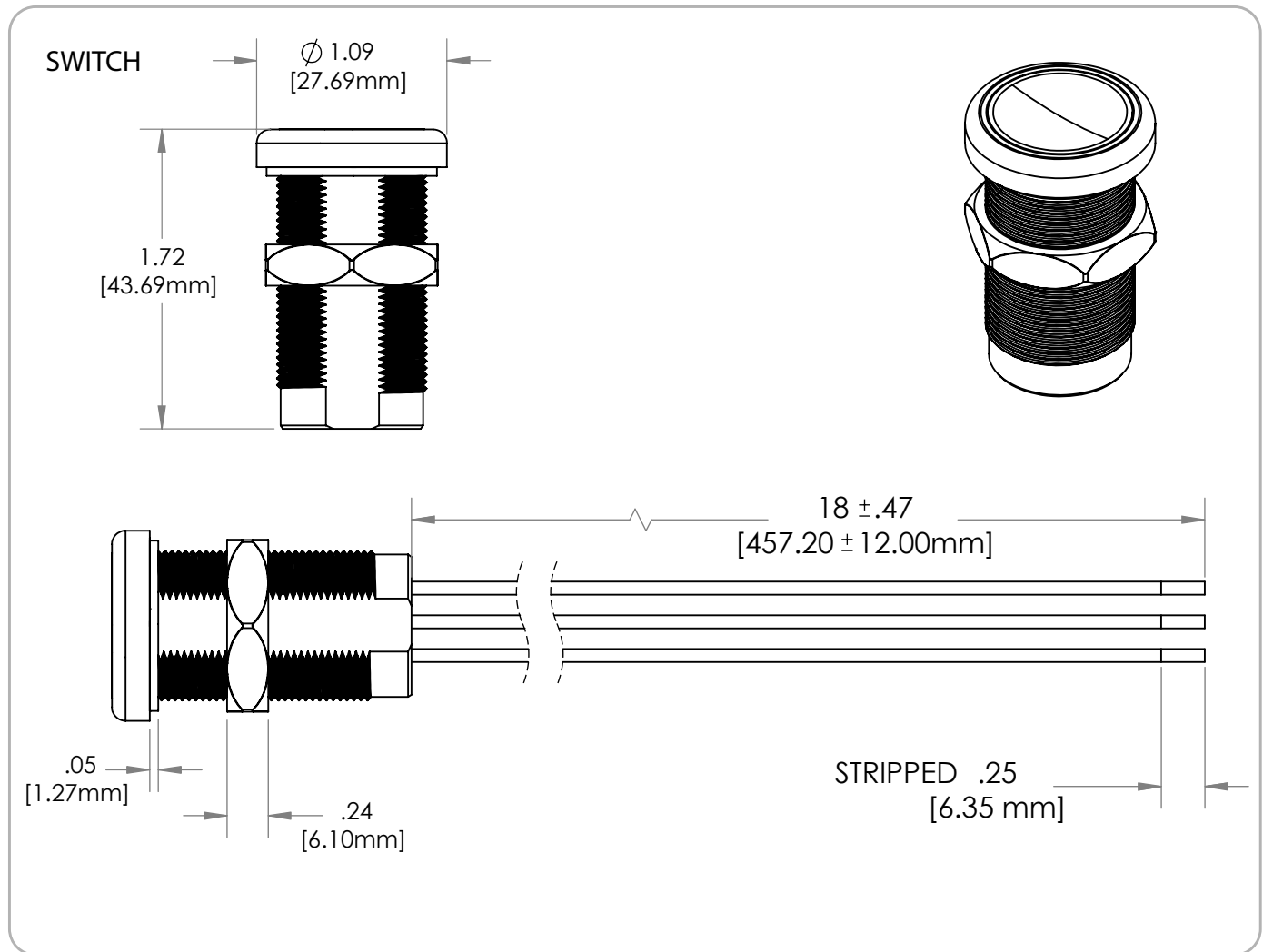
Dual Output



Wireless Only



Dimensional Specs

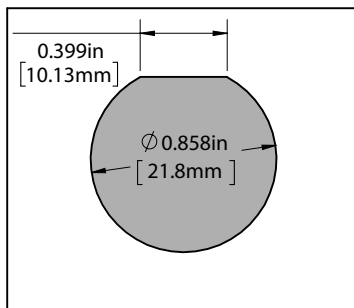


Mounting Guide

1. Cut Mounting Hole (If Needed)*

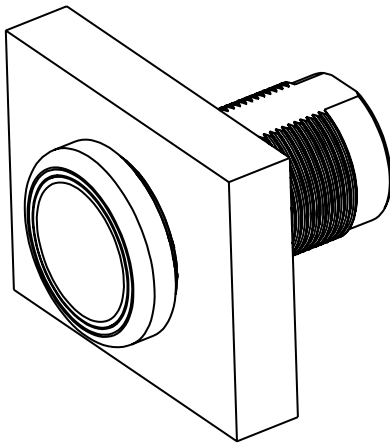
Mark a round or D-shaped mounting hole with a diameter of 0.858 inches (21.8 mm) on the mounting location using a level. Cut carefully with a rotary tool or jigsaw. Smooth the edges.

Use $\frac{5}{16}$ inch drill bit



3. Confirm Fit & Function

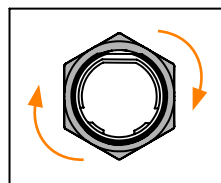
Once mounted, ensure the Pi Switch sits flush and operates smoothly. Test the switch manually and via the app to confirm functionality.



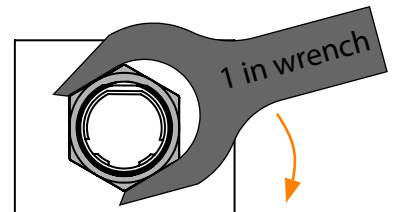
2. Mount the Switch

Place rubber gasket** between the Pi Switch face and the mounting surface to prevent water leakage into the dash. Insert the Pi Switch into the hole. It should fit snugly. Secure by threading on the hex nut. Tighten the hex nut by hand, then tighten with a wrench to 1½ turns. This is equivalent to a torque of about 1 ft·lb.

Hand Tighten



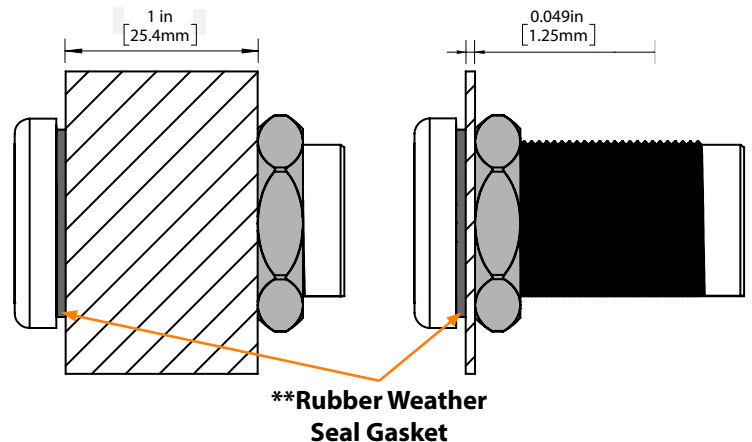
Tighten 1½ Turns



Tighten to 1 ft·lb

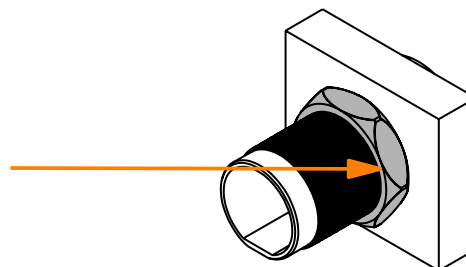
*Maximum and minimum mounting wall thickness:

The panel or wall surface cannot exceed 1 in (25.4 mm) and cannot be thinner than 0.049 in (1.25 mm) to allow proper thread engagement and secure mounting. Panels outside this range may prevent full tightening or sealing.



⚠ WARNING ⚠

Overtightening may cause thread stripping, damage components, or compromise the integrity of the assembly. Tighten only to the specified torque value of 1 ft·lb. Damage from over tightening is not covered by warranty.

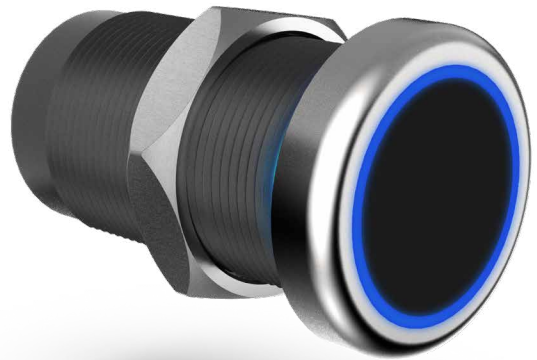


Part Number Details

Part Number	Output			Bezel Finish			Blank Keypad
	Single FET	Dual FET	Wireless Only	Clear Anodized	Black Anodized	Stainless Steel	
900-00575	●			●			●
900-00577		●		●			●
900-00596			●	●			●
900-00604	●				●		●
900-00605		●			●		●
900-00612			●		●		●
900-00607	●					●	●
900-00608		●				●	●
900-00613			●			●	●

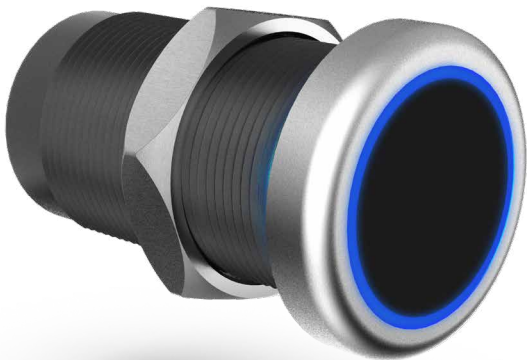
**316
Stainless Steel**

607 / 608 / 613



**Aluminum
Anodized - Clear**

575 / 577 / 596



**Aluminum
Anodized - Black**

604 / 605 / 612

