

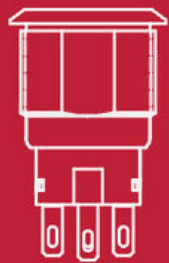
# 7 STEPS FOR SELECTING THE RIGHT SWITCH



**E ♦ SWITCH®**



# WHAT TYPE OF SWITCH ARE YOU LOOKING FOR?



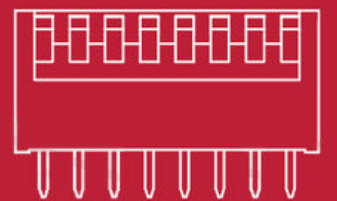
ANTI-VANDAL



CAPACITIVE



DETECTOR



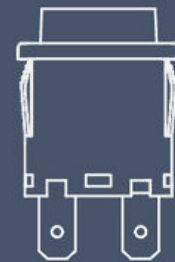
DIP



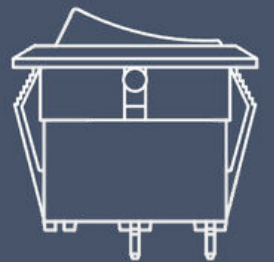
KEYLOCK



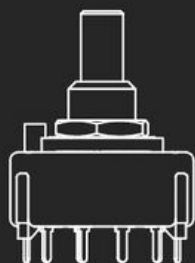
NAVIGATION



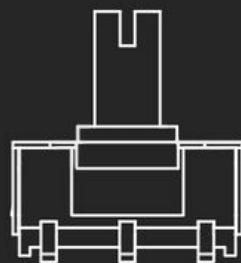
PUSHBUTTON



ROCKER



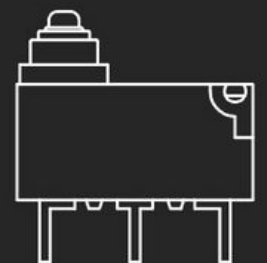
ROTARY



ROTARY DIP



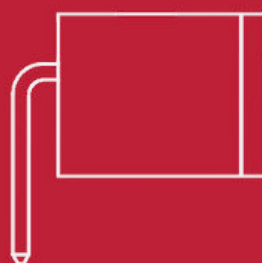
SLIDE



SNAP ACTION



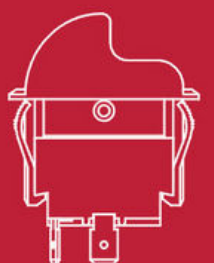
TACT



TILT



TOGGLE



TRIGGER

# WHAT ELECTRICAL RATINGS ARE NEEDED?

## 1. Is the product AC or DC?

- Common voltages for AC: 125VAC, 250VAC
- Common voltages for DC: 3, 6, 12, 24 and 48VDC

## 2. How many amperes does the switch need to handle?

- Low Power is in the milliamps
- Medium Power is from 2 amps to 5 amps
- High Power is greater than 6 amps

## 3. If you're looking at medium to high power, what agency approvals are needed?

- Where the product is sold determines what approvals are needed



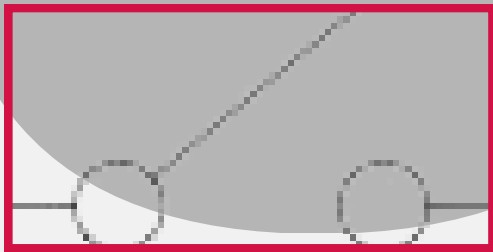
# HOW MANY POLES & THROWS DO YOU NEED?

Poles are the number of closed independent circuits.

Throws are the number of positions in which a given pole is closed.

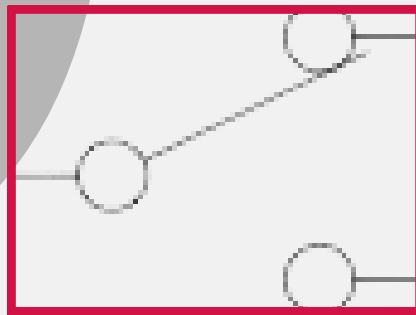
## SPST

Single pole  
Single throw



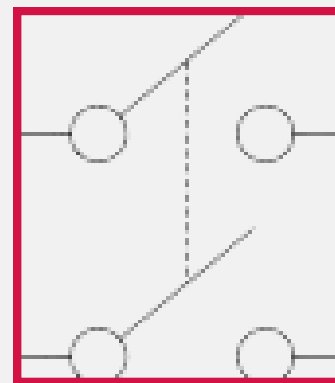
## SPDT

Single pole  
Double throw



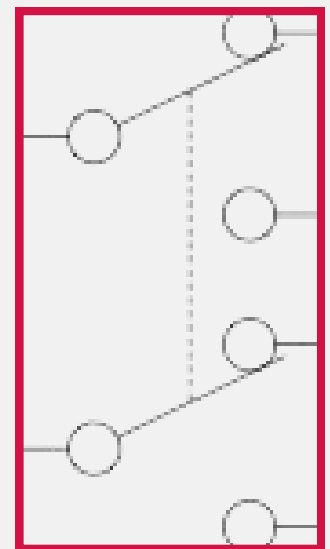
## DPST

Double pole  
Single throw



## DPDT

Double pole  
Double throw



*Basic examples*

**SPST - Flashlight:** 1 pole for turning the light on/off

**SPDT - Vacuum Cleaner:** 1 pole for power, 1 throw for low speed, 1 throw for high speed

**DPST - Air Conditioner:** 1 pole controls the chiller, 1 pole controls the fan

**DPDT - Hair Dryer:** 1 pole controls the heater, 1 pole controls the fan, 1 throw is for low speed, 1 throw is for high speed

# HOW DOES THE SWITCH ATTACH TO YOUR PRODUCT?

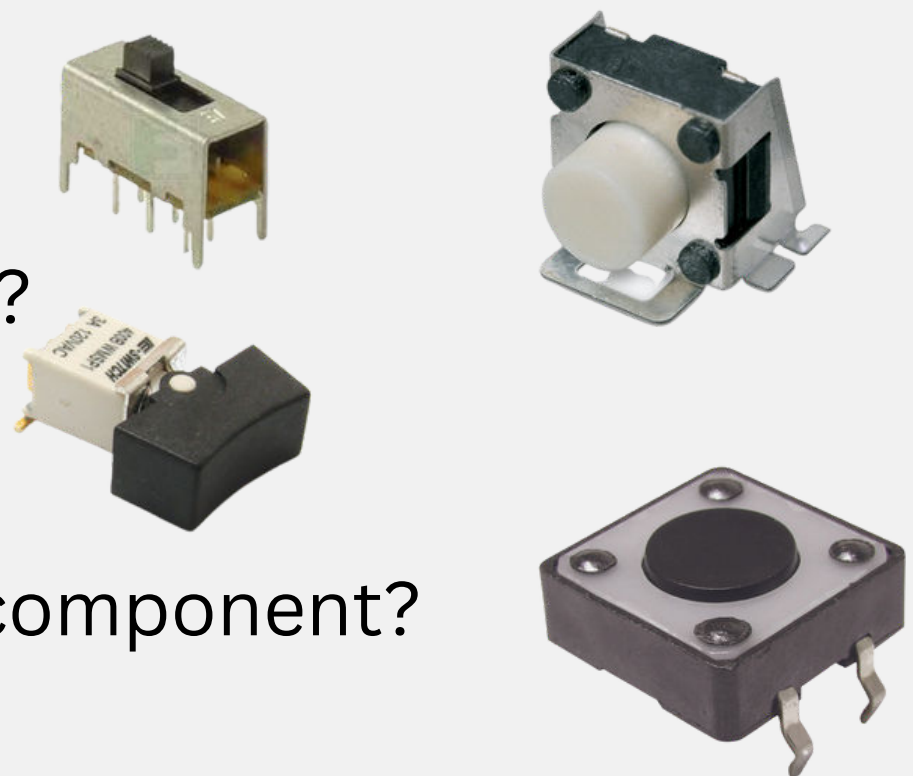
## 1. Panel Mount

- What's the panel cutout size?
- What's the thickness of the panel?
- What type of termination?
- Quick connect or solder lug?



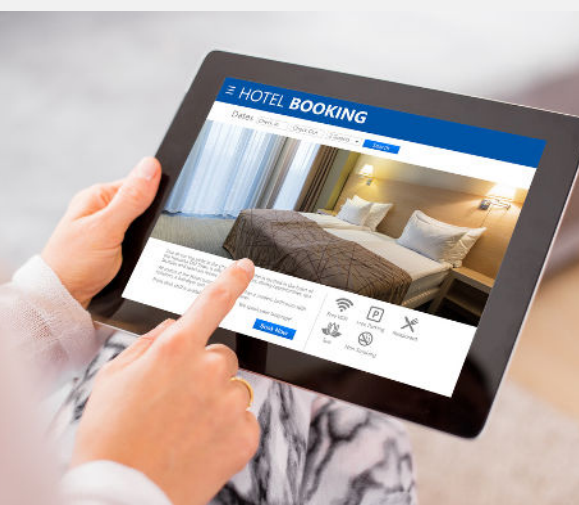
## 2. PCB Mount

- What type of termination?
- Through hole or surface mount?
- What type of actuation?
- Right angle or vertical
- Do you need a process sealed component?



# WHAT IS YOUR APPLICATION?

Knowing the application that the switch goes into aids us in the ability to look for unique instances where certain switches work better than others.



# ARE THERE ANY ADDITIONAL REQUIREMENTS?

Many products have requirements that are not initially thought of. Some might make the switch more aesthetically pleasing and others will help the switch perform better under special circumstances.

- Momentary or Latching
- Illumination
- Sealed Protection (IP Rating)
- Custom Cap Options
  - Colors
  - Graphics
  - Styles
- Long Life Expectancy
- High Inrush or Horse Power Rating
- Extreme Temperature Rating
- Custom User Requirements



# **WHAT'S THE ESTIMATED ANNUAL USEAGE (EAU)?**

**If you're looking for a custom switch, it's important to know an accurate EAU for your project. Once we know, we're able to determine how feasible certain customizations are.**

**Since unique requirements sometimes incur additional tooling charges, knowing in the beggining will help expedite the process.**



**E-SWITCH®**