CS Series Anti-vandal Switch

Applications / Markets


White Goods


Security Devices


Commercial Appliances


Kiosks


Electrical Housewares


Medical Equipment

RoHS

Specifications

Contact Arrangement: SPST
Contact Rating: 1A @ 5-24VDC
Contact Resistance: 1Ω Max.
Electrical Life: 50,000,000 Cycles
Operating Temperature: -20°C to 65°C
Storage Temperature: -25°C to 65°C
Panel Thickness: 10mm Max.
Mounting Nut Torque: 3.0Nm

Features & Benefits

- **19mm or 22mm panel cutouts**
- **Latching or Momentary Function options**
- **Ring or Ring/Power Symbol lens options**
- **RGB color option**
- **Capacitive switching technology (Touch Sensor)**

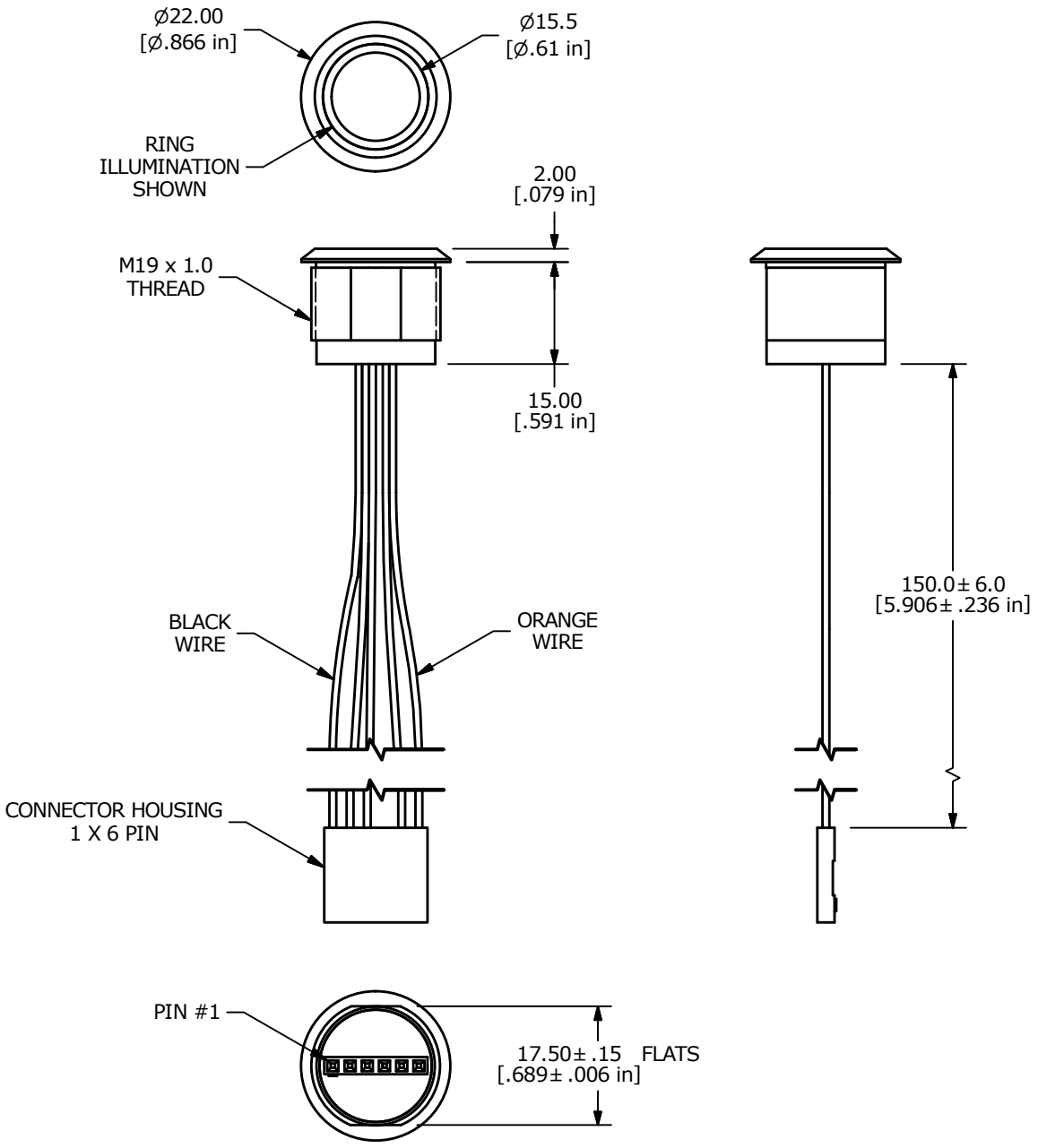
Part Number Configurator

Series	Size Option	Function	Material Finish	Button Style	Lens Style
CS	**4** - 19mm **7** - 22mm	**L** - Latching **M** - Momentary	**2** - Aluminum, Clear Anodized	**F** - Flat	**R** - Ring Illumination **P** - Power Symbol and Ring Illuminated

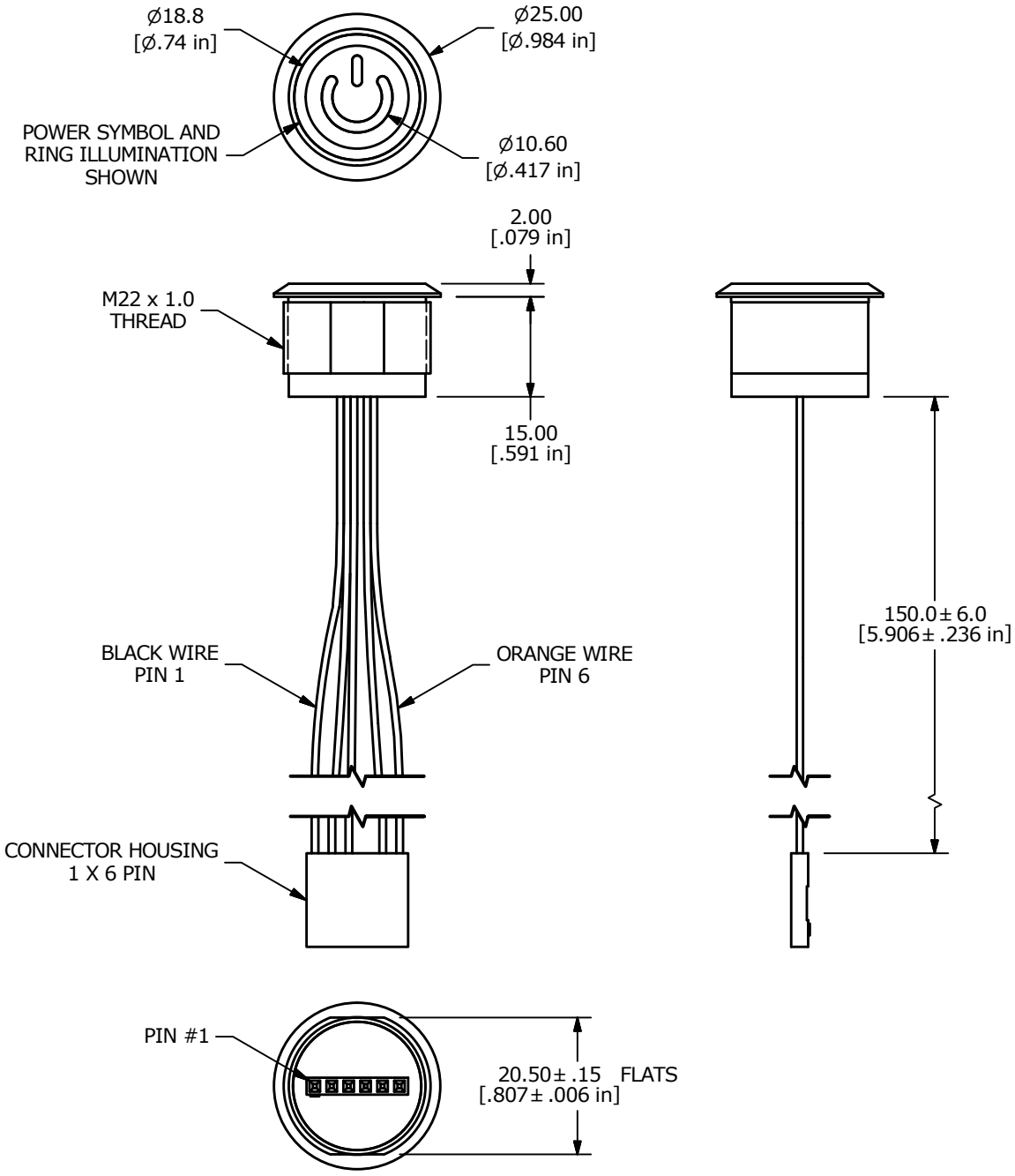
NOTES:
*(ON) Denotes function is momentary

Specifications subject to change without notice 1.21.2019

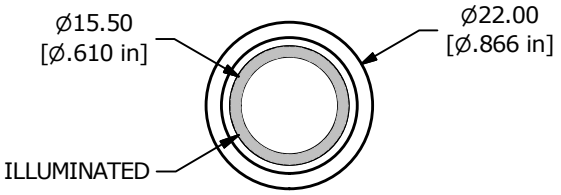
Body Dimensions
19mm



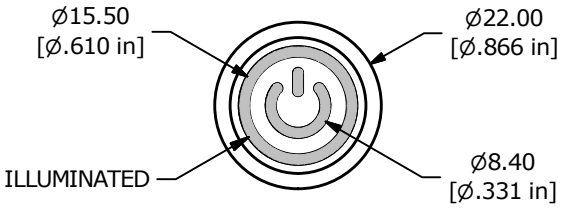
Body Dimensions
22mm



Illumination Styles

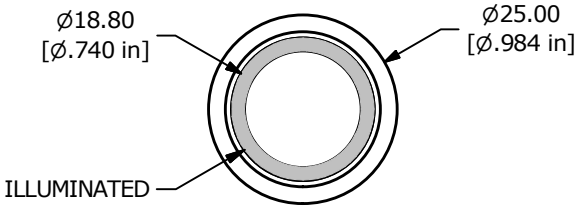


R - Ring Illumination

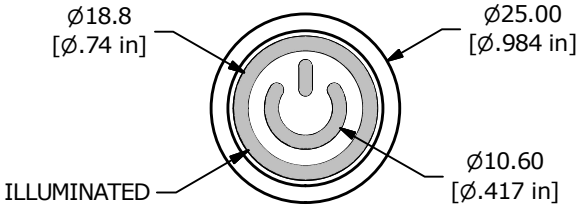


P - Power Symbol &
Ring Illumination

19mm



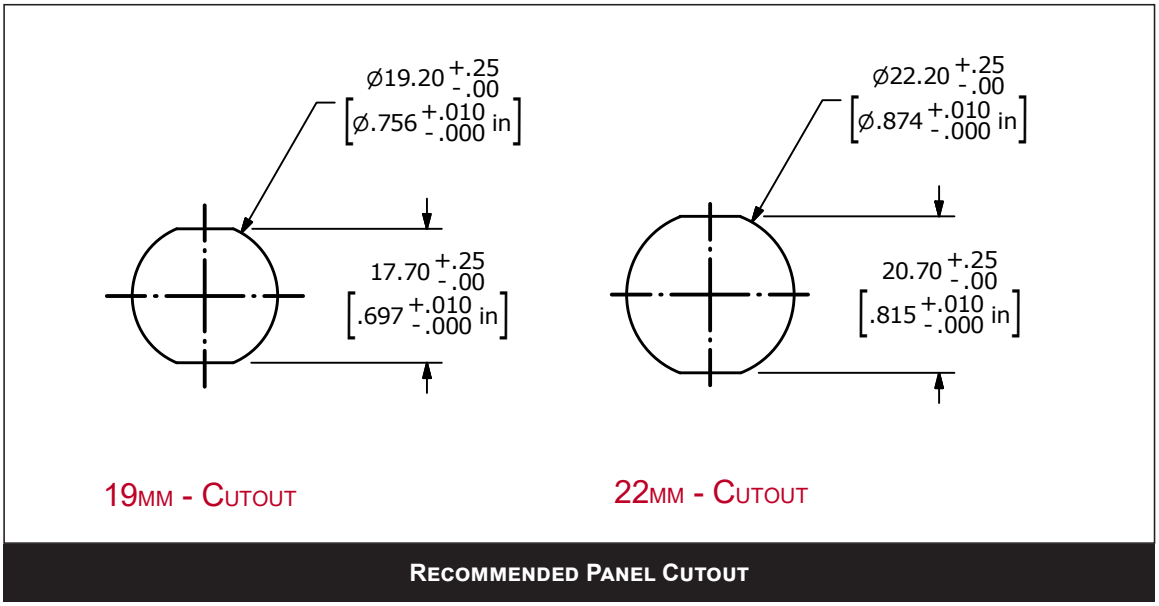
R - Ring Illumination



P - Power Symbol &
Ring Illumination

22mm

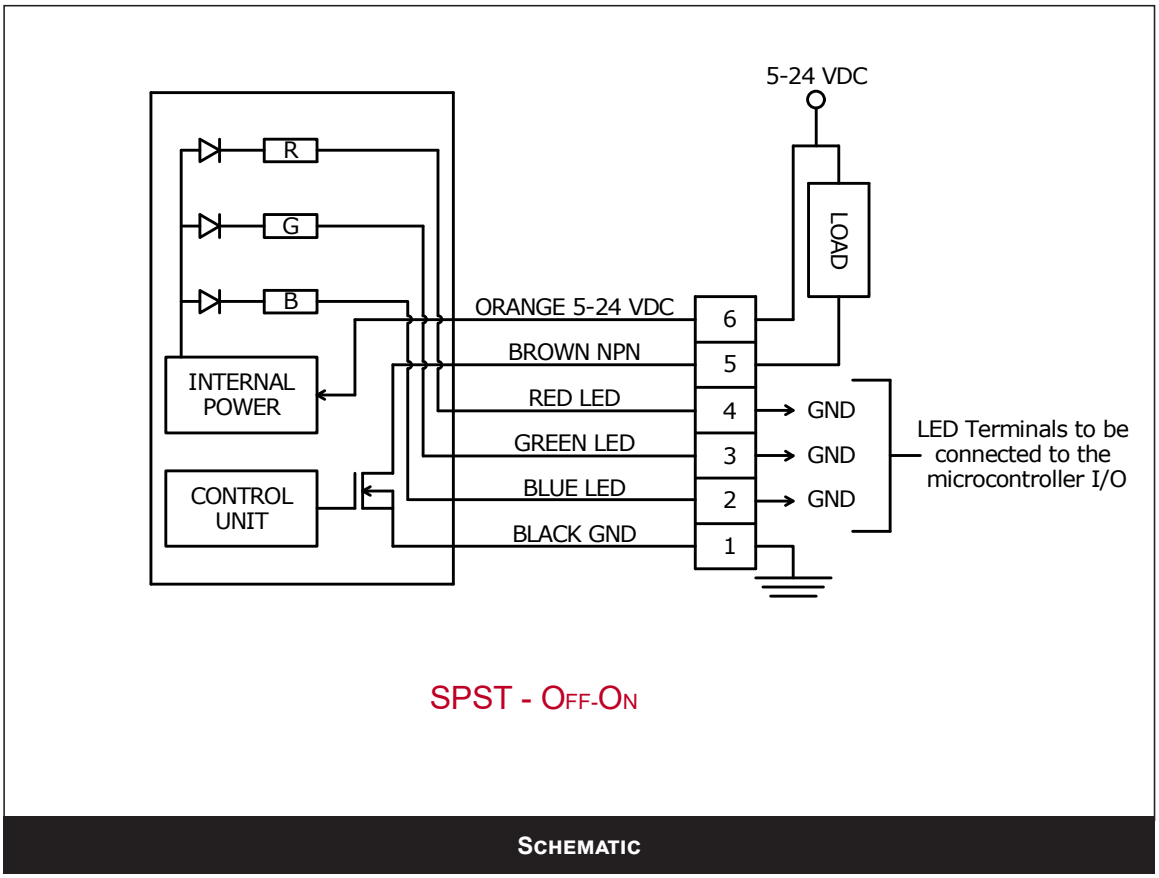
Panel Cutout & Schematic



19mm - Cutout

22mm - Cutout

Recommended Panel Cutout

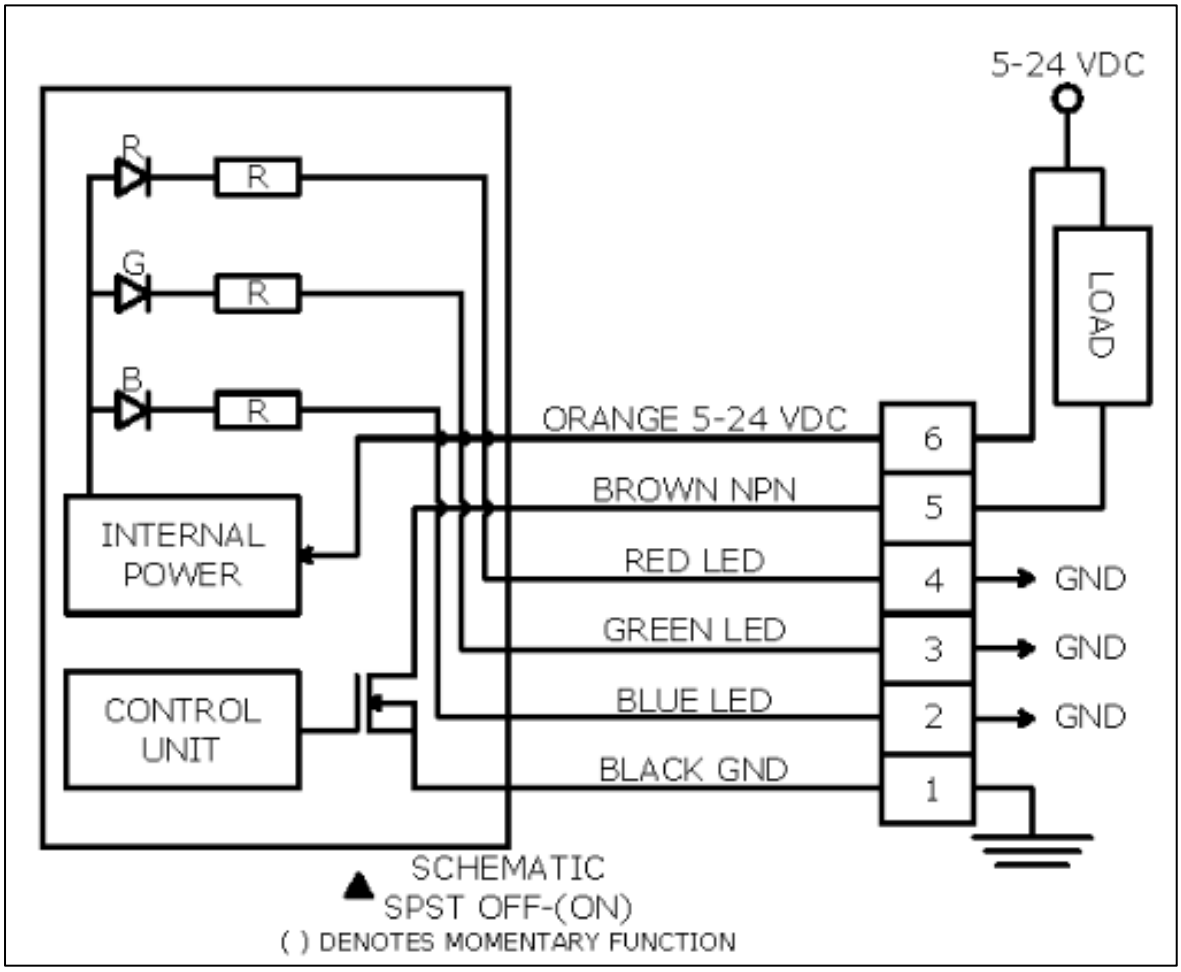


SPST - Off-On

Schematic

Example Use Case

- Desired Outcome:
  - On State: Green LED Illuminated
  - Off State: Red LED Illuminated
- Schematic:



- Wire power (5-24VDC @ 1A) to pin 6 and ground to pin 1
- Connect NPN pin 5 of CS4M22R to an input pin of a pull-down integrated circuit (IC). This will allow the desired LED to be illuminated during the ON or OFF states
  - If pin 5 is outputting voltage, then we will have the green LED illuminated to show a running state
  - If pin 5 is not outputting voltage, then we will have the red LED illuminated to show a stopped state
- Connect red LED pin 4 of CS4M22R to an output pin of a desired IC that is also connected to NPN pin 5
- Connect green LED pin 3 of CS4M22R to an output pin of a desired IC that is also connected to NPN pin 5
- Send a high signal from the IC to the red LED when the green LED is active and pulling low. This will prevent the red from illuminating
- Send a high signal from the IC to the green LED when the red LED is active and pulling low. This will prevent the green LED from illuminating
- If power pin 6 and ground pin 1 have been wired to the switch each LED can be grounded for constant illumination if desired. This illumination will ignore the state change of the switch
- Remember to use any needed resistors to avoid damaging components