

Carling Retail Anti-Vandal Switches

10A Push Button



Description

The AV Series sealed switch product line features a sleek design with various LED illumination options. These single pole switches are available with momentary and maintained circuits, with quick connect tab terminals for easy installation and daisy-chaining.

Web Resources

Download 2D print, installation guide and technical resources at: littelfuse.com/Carling-Retail-Anti-Vandal-Switches

Performance Data

ELECTRICAL	
Contact Rating	10.1A Resistive @ 12V DC
LED Ratings	12V AC/DC @ 15mA
Dielectric Strength	1000V RMS 50–60 Hz
Insulation Resistance	50 M-ohms min. @500V DC
Initial Contact Endurance	≤10 mΩ
Electrical Endurance	Up to 25,000 Cycles
Contacts	Silver alloy
Terminals	110" x 0.020 [2.79 x 0.5 mm] plug-in terminal, copper alloy silver plate

MECHANICAL	
Function	NO / NC contact (changeover)
Operation	Momentary or maintained
Illumination	Independent LED (Blue, Red, Green)
Seals	Silicone, Bezel and Button
Mounting	M19-P1.0 Nut (SUS316), Tightening torque: 2–3Nm
Base	Glass filled Nylon
Actuator / Bushing	Stainless Steel 316
Lens	Polycarbonate, PC
Actuation Force	7N max
Weight	18g

Features and Benefits

- Designed with quick connect tab terminals; this switch is single-pole with both momentary and maintained circuit options (SPDT)
- Supports a range of voltage options, accommodating 3-30V DC and 6-48V DC systems
- Customizable to suit your specific application and style preferences with above panel installation
- The IP67 sealing provides protection against harsh environmental conditions

Applications

- Marine
- EV Infrastructure
- Charging Stations
- Industrial Automation
- Security Panels
- Public Transit Systems
- Harsh and/or Outdoor Environments

Ordering Information

CARDED PART NUMBER	BULK PART NUMBER	ILLUMINATED RING COLOR	AMPS	DESCRIPTION
CTAV001-BP	CTAV001	Blue	10.1	ON-ON, SPDT
CTAV002-BP	CTAV002	Blue	10.1	ON-(ON), SPDT
CTAV003-BP	CTAV003	Red	10.1	ON-ON, SPDT
CTAV004-BP	CTAV004	Red	10.1	ON-(ON), SPDT
CTAV005-BP	CTAV005	Green	10.1	ON-ON, SPDT
CTAV006-BP	CTAV006	Green	10.1	ON-(ON), SPDT

ENVIRONMENTAL	
Ingress Protection	IP67, for above-panel components of the actual switch; compliant with IEC 60529
Storage Temperature	-55°C to +85°C
Operating Temperature	-30°C to +70°C (may affect endurance)
Vibration, High Frequency	Mil-Std 202G, Method 204D, Test Condition A 0.06 DA or 10G's 10-500 Hz. Test criteria- No loss of circuit during test and pre and post test contact resistance
Vibration, Random	Mil-Std 202G, Method 214A, Test Condition I and B 7.56G's RMS.8-hours in each of the 3 mutually perpendicular axes. Test criteria- No loss of circuit during test and pre and post test contact resistance
Thermal Shock	MIL-STD 202G Method 107G, Condition A (Five cycles @ -55°C to +25°C to +85°C to +25°C) <10μ seconds chatter
Moisture Resistance	MIL-STD 202G Method 106G, i.e.10–24-hour cycles @ +25°C to +60°C, 80-90% RH.
Electro-Static Discharge	Compliant with EN61000-4-2 Contact Discharge Level: Max. ±8KV Air Discharge Level: Max. ±15KV
Ignition Protection	UL1500, ISO 8846