ALCOSWITCH ANTI-VANDAL SWITCH SERIES

The new ALCOSWITCH Anti-Vandal switch series is designed for security and reliability in a variety of panel mount industrial and building applications. The large pushbutton and available LED indicators illuminate the switch and allow for an easy user interface. The Anti-Vandal series is available in panel sizes of 16, 19, and 22 mm, and with various pushbutton symbols including Spot, Ring, and Power Logo. Switches are sealed to IP67 and available in single and double pole configurations.

Applications

- Industrial equipment
- Elevators/Escalators
- Instrumentation
- Communication equipment
- Control equipment

Electrical

- RoHS Directive 2002/95/E compliant
- REACH Compliant and Pb Free
- UL (E46765) for AV19, AV22 series

Mechanical

- Operating temperature: -20~+55° C

Materials

- Contacts: Copper with silver or gold plating
- Actuator: Stainless Steel
- Terminals: Copper, silver plated
- Terminal seal: Silicon
- Case: PBT
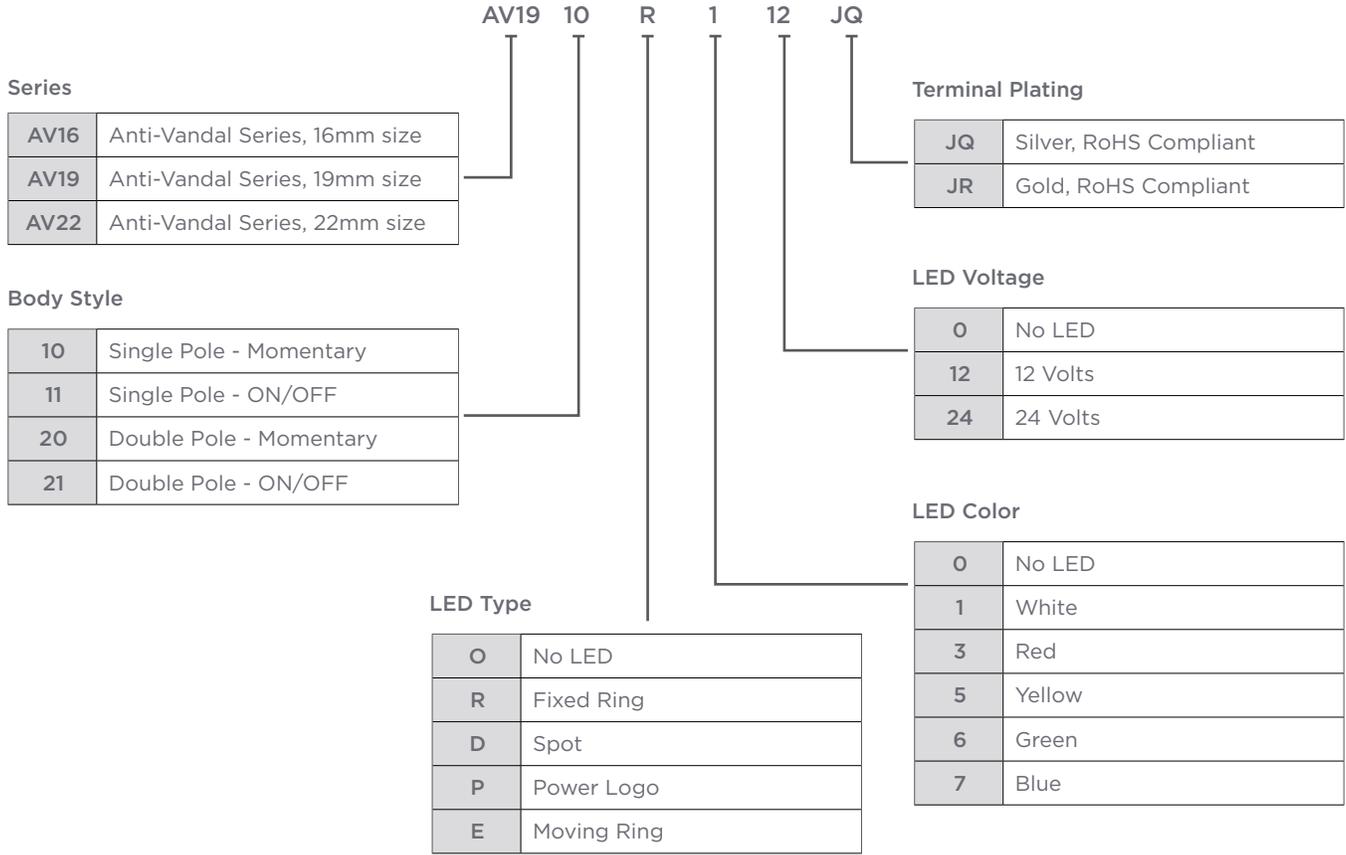- Bushing: Stainless steel

Key Benefits

- Allow for an easy user interface with a large pushbutton and available LED indicators illuminate the switch

- Enable flexibility with various pushbutton symbols including Spot, Ring, and Power logo

- Achieve a vandal proof solution with a jam nut accessible for rear of the panel

TE
connectivity

Typical Performance Characteristics

- **Number of poles:** 1 to 2
- **Switch Functions:** OFF-ON, OFF-(ON)
- **Contact Rating:** 2A @ 36VDC (16mm)
  3A @ 250VAC (19, 22mm)
- **Gold Contact:** 0.4 VA @ 20V max
- **Electrical life**
  (pushbutton only):
16mm:	200,000 cycles
19/22mm:	50,000 cycles
- **Contact resistance:** 50mOhms max. @ 1A, 12VDC (initial value)
- **Insulation resistance:** 1,000 MOhms min. @500VDC
- **Dielectric strength:** 2,000V for 1 minute
- **Actuator force:**
16mm:	4.5 +/- 1.5 N
19/22mm, Single Pole:	2.5 +/- 1.0 N
19/22mm, Double Pole:	3.5 +/- 1.0 N
- **Actuator travel:**
16mm:	2.0 mm
19/22mm:	3.2 mm
- **Life Expectancy:**
Momentary:	1,000,000 actuations
Push On/Off:	500,000 actuation

Product Key

AV19 10 R 1 12 JQ

Series

AV16	Anti-Vandal Series, 16mm size
AV19	Anti-Vandal Series, 19mm size
AV22	Anti-Vandal Series, 22mm size

Body Style

10	Single Pole - Momentary
11	Single Pole - ON/OFF
20	Double Pole - Momentary
21	Double Pole - ON/OFF

LED Type

O	No LED
R	Fixed Ring
D	Spot
P	Power Logo
E	Moving Ring

Terminal Plating

JQ	Silver, RoHS Compliant
JR	Gold, RoHS Compliant

LED Voltage

0	No LED
12	12 Volts
24	24 Volts

LED Color

0	No LED
1	White
3	Red
5	Yellow
6	Green
7	Blue

Product Selection Information

Product Key	Series	Body Style	LED Type	LED color	LED voltage	Terminal Plating	TE PN
AV1610P112R04	16 mm	Single Pole - Momentary	Power Logo	White	12 Volts	Gold	2213775-1
AV1910000Q04	19 mm	Single Pole - Momentary	-	-	-	Silver	2213763-1
AV1911000Q04	19 mm	Single Pole - ON / OFF	-	-	-	Silver	2213763-3
AV1920000Q04	19 mm	Double Pole - Momentary	-	-	-	Silver	2213763-5
AV1921000Q04	19 mm	Double Pole - ON / OFF	-	-	-	Silver	2213763-7
AV2210000Q04	22 mm	Single Pole - Momentary	-	-	-	Silver	2213771-1
AV2211000Q04	22 mm	Single Pole - ON / OFF	-	-	-	Silver	2213771-3
AV2220000Q04	22 mm	Double Pole - Momentary	-	-	-	Silver	2213771-5
AV2221000Q04	22 mm	Double Pole - ON / OFF	-	-	-	Silver	2213771-7

te.com

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TE connectivity

Mouser Electronics

Authorized Distributor

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  AV2211000Q04 AV1921000Q04 AV2210000Q04 AV2220000Q04 AV1910000Q04 AV1911000Q04
AV2221000Q04 AV1920000Q04 AV1921P724Q04 AV1920P512Q04 AV1911R512Q04 AV1911P324Q04
AV2211E724Q04 AV1910E524Q04 AV1911P312Q04 AV1911E124Q04 AV1920E712Q04 AV1921E612Q04
AV1910P612Q04 AV1911E312Q04 AV1911E524Q04 AV1920E324Q04 AV2220E512Q04 AV1910E112Q04
AV1911R312Q04 AV2211E712Q04 AV1910R612Q04 AV2211E124Q04 AV1921E312Q04 AV2220E624Q04
AV1911P524Q04 AV2211E624Q04 AV1910P124Q04 AV1910E624Q04 AV2210E512Q04 AV1911P512Q04
AV2210E324Q04 AV1921P312Q04 AV1910P524Q04 AV1911P712Q04 AV1910R724Q04 AV1920E724Q04
AV2210E124Q04 AV2220E712Q04 AV1911E724Q04 AV2221E612Q04 AV2210E612Q04 AV2210E624Q04
AV1921P712Q04 AV1920E524Q04 AV1921P112Q04 AV1910R324Q04 AV1920P112Q04 AV1920E124Q04
AV1910E712Q04 AV1910P724Q04 AV2220E312Q04 AV1911R524Q04 AV1910E512Q04 AV2211E524Q04
AV1921P524Q04 AV1911E512Q04 AV2221E324Q04 AV1921E724Q04 AV1910R112Q04 AV1920E312Q04
AV2221E624Q04 AV2220E324Q04 AV1920E612Q04 AV1911E624Q04 AV1911P112Q04 AV2221E124Q04
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