

# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

TE Connectivity's (TE) 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, 22 and 25 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
- Ease of installation with available flying lead terminations.

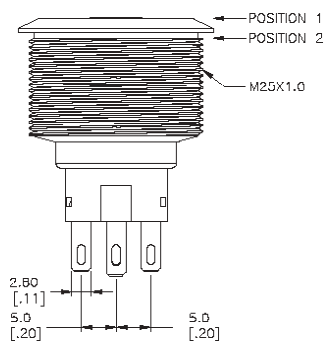
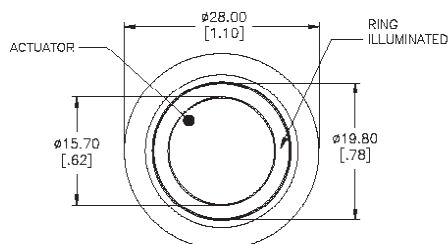
## Typical Performance Characteristics

- **Number of poles:** 1 to 2
- **Switch Functions:** OFF-ON, OFF-(ON)
- **Contact Rating:** 2A @ 36VDC (16mm)  
3A @ 250VAC (19, 22, 25mm)
- **Gold Contact:** 0.4 VA @ 20V max
- **Electrical life (pushbutton only):** 16mm: 200,000 cycles  
19/22/25mm: 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  
19/22/25mm, Single Pole: 2.5 +/- 1.0 N  
19/22/25mm, Double Pole: 3.5 +/- 1.0 N
- **Actuator travel:** 16mm: 2.0 mm  
19/22/25mm: 3.2 mm
- **Life Expectancy:** Momentary: 1,000,000 actuations  
Push On/Off: 500,000 actuation

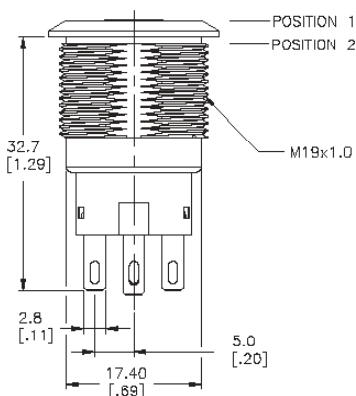
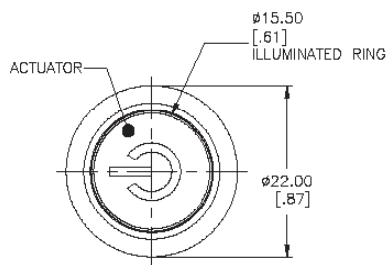


## Dimensions

Part Number 2316365-1



Part Number 2316366-1



## Product Key

Series		AV19	10	R	1	12	J	Q	04	Environmental	
AV16	Anti-Vandal Series, 16mm size									04	RoHs Compliant
AV19	Anti-Vandal Series, 19mm size										
AV22	Anti-Vandal Series, 22mm size										
AV25	Anti-Vandal Series, 25mm size										
Body Style										Plating	
10	Single Pole - Momentary									Q	Silver
11	Single Pole - ON/OFF									R	Gold
20	Double Pole - Momentary										
21	Double Pole - ON/OFF									Terminal Plating	
		J	Solder Terminal								
		T5	Flying Leads (500mm)								
LED Type										LED Voltage	
O	No LED									0	No LED
R	Fixed Ring									12	12 Volts
D	Spot									24	24 Volts
P	Power Logo									LED Color	
E	Moving Ring									0	No LED
E1	Moving Ring w/Power Logo									1	White
										3	Red
										5	Yellow
										6	Green
										7	Blue
		A	Red & Green								
		B	Red & Blue								
		C	Red & Yellow								

## Product Selection Information

Product Key	Series	Body Style	LED color	LED voltage	Terminal Plating	TE PN
AV1610R112R04	16 mm	Single Pole - Momentary	White	12 Volts	Gold	<a href="#">2213774-1</a>
AV1910D512Q04	19 mm	Single Pole - Momentary	Yellow	12 Volts	Silver	<a href="#">2213765-9</a>
AV1910RAZ4Q04	19 mm	Single Pole - Momentary	Red / Green	24 Volts	Silver	<a href="#">2317404-2</a>
AV1910EG24T5Q04	19 mm	Single Pole - Momentary	Red / Yellow	24 Volts	Silver	<a href="#">3-2316531-5</a>
AV2210E324R04	22 mm	Single Pole - Momentary	Red	24 Volts	Gold	<a href="#">2213772-8</a>
AV2211EB12Q04	22 mm	Single Pole - Locking	Red / Blue	12 Volts	Silver	<a href="#">2317570-9</a>
AV2220EB12T5Q04	22 mm	Double Pole - Momentary	Red / Blue	12 Volts	Silver	<a href="#">4-2317570-4</a>
AV2510E312Q04	25 mm	Single Pole - Momentary	Red	12 Volts	Silver	<a href="#">2317656-3</a>
AV2521M124Q04	25 mm	Double Pole - Locking	White	24 Volts	Silver	<a href="#">2-2317658-6</a>
AV2511MB12T5Q04	25 mm	Single Pole - Locking	Red / Blue	12 Volts	Silver	<a href="#">2317659-7</a>

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