

# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

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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.



## FEATURES

- 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.

## APPLICATIONS

- Industrial equipment
- Elevators/Escalators
- Instrumentation
- Communication equipment
- Control equipment
- Medical equipment
- Parking Systems
- Emergency Communication

## ELECTRICAL

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

## ALCOSWITCH ANTI-VANDAL SWITCH SERIES

### TYPICAL PERFORMANCE CHARACTERISTICS

|                                    |                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------|
| Number of poles:                   | 1 to 2                                                                                                  |
| Switch Functions:                  | OFF-ON, OFF-(ON)                                                                                        |
| Contact Rating:                    | 2A @ 36VDC (16mm)<br>3A @ 250VAC/28VDC (19, 22, 25mm)                                                   |
| Gold Contact:                      | 0.4 VA @ 20V max                                                                                        |
| Electrical life (pushbutton only): | 16mm: 200,000 cycles<br>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<br>19/22/25mm, Single Pole: 2.5 +/- 1.0 N<br>19/22/25mm, Double Pole: 3.5 +/- 1.0 N |
| Actuator travel:                   | 16mm: 2.0 mm<br>19/22/25mm: 3.2 mm                                                                      |
| Life Expectancy:                   | Momentary: 1,000,000 actuations<br>Push On/Off: 500,000 actuation                                       |

### MECHANICAL

|                       |              |
|-----------------------|--------------|
| Operating temperature | -20 ~ +55° C |
|-----------------------|--------------|

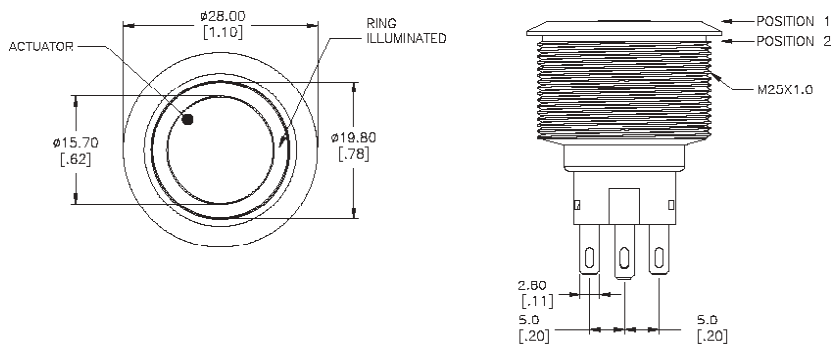
### MATERIALS

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

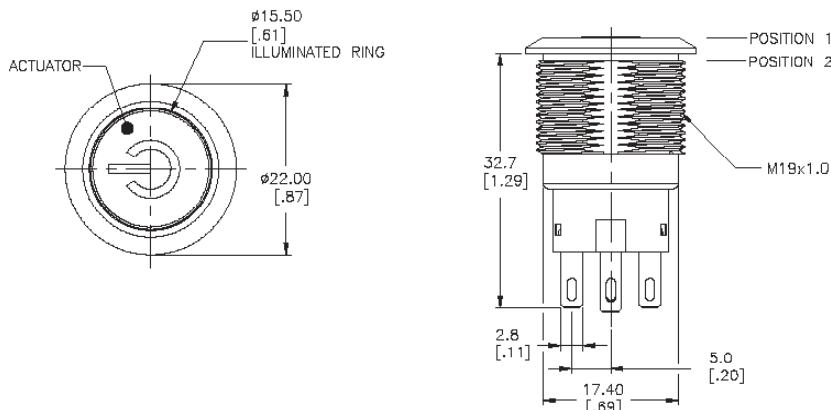


### DIMENSIONS

Part Number 2316365-1

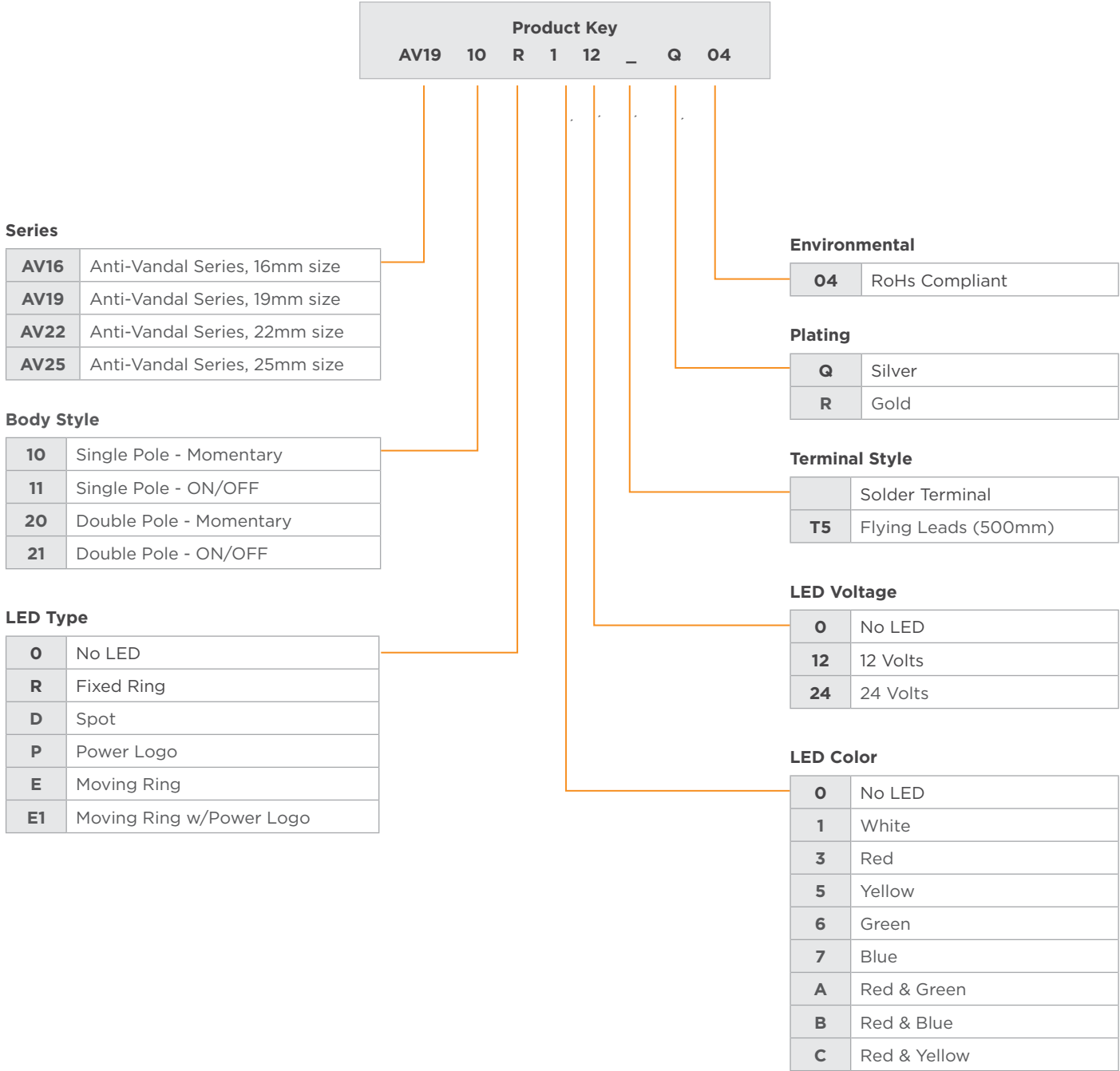


Part Number 2316366-1



# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

## PRODUCT CODE STRUCTURE



## PRODUCT SELECTION EXAMPLES

| Product key     | Series | Body Style              | LED color    | LED voltage | Terminal Plating | Part number                 |
|-----------------|--------|-------------------------|--------------|-------------|------------------|-----------------------------|
| 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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